

## Grosvenor Coal Mine - Critical Control Register

ID	PUE	Top Event ID TE #	Top Event	Control ID CT #	Critical Control	Monitoring Activity #	Monitoring Activity	Frequency	Owner	Team Member(s)
1	Contact with live conductors	TE 0000253	Electrocution	CT.00016676	'Aerials sign posted for height above ground of overhead powerlines/visibility Plastic Balls on overhead power lines'	CA.GRV.CCM 2.2.1	Check the site register has been updated with overhead survey heights by the Survey department	Annual	Paganoni Peter - [REDACTED]	Bailey Ian - [REDACTED]
2	Contact with live conductors	TE 0000253	Electrocution	CT.00016676	'Aerials sign posted for height above ground of overhead powerlines/visibility Plastic Balls on overhead power lines'	CA.GRV.CCM 2.2.2	Verify that the designated travel routes on site have been appropriately signed	Annual	Paganoni Peter - [REDACTED]	Bailey Ian - [REDACTED]
3	Contact with live conductors	TE 0000253	Electrocution	CT.00016656	RCD Tests - Fit for purpose equipment	CA.GRV.CCM 3.2.1	Verify with the surface electrical coordinator regarding completion of the surface office areas and industrial area	Annual	Paganoni Peter - [REDACTED]	Bailey Ian - [REDACTED]
4	Contact with live conductors	TE 0000253	Electrocution	CT.00016656	RCD Tests - Fit for purpose equipment	CA.GRV.CCM 3.2.2	Verify Code C inspection documents have RCD test completed	Annual	Paganoni Peter - [REDACTED]	Bailey Ian - [REDACTED]
5	Contact with live conductors	TE 0000253	Electrocution	CT.00016697	Certified cable repairer	CA.GRV.CCM.4.2.1	Verify the cable repairer has current accreditation for the works undertaken	Bi-Annually	Paganoni Peter - [REDACTED]	Bailey Ian - [REDACTED]
6	HV vs. Person	TE 00000246	Personnel, Equipment & Machinery Interaction [Men & Materials Transport]	CT.00016058	Equipment design and inspections -Brake tests (dynamic and static), steering, seatbelts, towing	CA.GRV.CCM 5.2.1	Select a sample of at least 3 machines and verify that weekly brake test are carried out and passed successfully.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
7	HV vs. Person	TE 00000246	Personnel, Equipment & Machinery Interaction [Men & Materials Transport]	CT.00016058	Equipment design and inspections -Brake tests (dynamic and static), steering, seatbelts, towing	CA.GRV.CCM 5.2.4	Verify brake test machine is in calibration	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
8	HV vs. Person	TE 00000246	Personnel, Equipment & Machinery Interaction [Men & Materials Transport]	CT.00016058	Equipment design and inspections -Brake tests (dynamic and static), steering, seatbelts, towing	CA.GRV.CCM 5.2.5	Observe operator carrying out brake test and ensure all of the requirements are met	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
9	HV vs. Person	TE 00000246	Personnel, Equipment & Machinery Interaction [Men & Materials Transport]	CT.00016058	Equipment design and inspections -Brake tests (dynamic and static), steering, seatbelts, towing	CA.GRV.CCM 5.2.6	Select a sample of at least 3 LHD's and verify that the steering system and accumulator tests have been carried out and passed successfully	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
10	HV vs. Person	TE 00000246	Personnel, Equipment & Machinery Interaction [Men & Materials Transport]	CT.00016058	Equipment design and inspections -Brake tests (dynamic and static), steering, seatbelts, towing	CA.GRV.CCM 5.2.9	Select a sample of 3 pieces of mobile plant (surface and/or underground) and confirm the following: Verify that seatbelts are fitted in all positions where personnel can be seated. / Verify that all fitted seatbelts operate and can be fastened correctly.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
11	HV vs. Person	TE 00000246	Personnel, Equipment & Machinery Interaction [Men & Materials Transport]	CT.00016058	Equipment design and inspections -Brake tests (dynamic and static), steering, seatbelts, towing	CA.GRV.CCM.5.2.10	Select a sample of three attachments (from LHD's) and confirm the following: Towing safety chains on the attachment are connected by the use of hammerlock or shackle. / Safety hooks are not used on either end of the towing safety chains. The use of safety hooks is prohibited on these chains.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
12	HV vs. Person	TE 00000246	Personnel, Equipment & Machinery Interaction [Men & Materials Transport]	CT.00016058	Equipment design and inspections -Brake tests (dynamic and static), steering, seatbelts, towing	CA.GRV.CCM.5.2.12	Select a sample of three LHDs and confirm the following: Verify that the 'Towing Mass' load is displayed on the machine. / Verify that the towing pin is present in the coupling with no obvious defects.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
13	HV vs. Person	TE 00000246	Personnel, Equipment & Machinery Interaction [Men & Materials Transport]	CT.00016058	Equipment design and inspections -Brake tests (dynamic and static), steering, seatbelts, towing	CA.GRV.CCM.5.2.13	Conduct a workplace inspection and physically verify that any mining equipment in operation (minimum of three pieces of equipment) has a completed pre-start inspection. Confirm that the pre-start included a check of brakes.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
14	HV vs. Person	TE 00000246	Personnel, Equipment & Machinery Interaction [Men & Materials Transport]	CT.00016058	Equipment design and inspections -Brake tests (dynamic and static), steering, seatbelts, towing	CA.GRV.CCM.5.2.14	Review the sample of completed pre-start inspections for the equipment and check for completeness, accuracy and quality. Review for any trends within the completed reports / inspections and confirm that these trends are known and being appropriately actioned.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
15	HV vs. Person	TE 00000246	Personnel, Equipment & Machinery Interaction [Men & Materials Transport]	CT.00016058	Equipment design and inspections -Brake tests (dynamic and static), steering, seatbelts, towing	CA.GRV.CCM.5.2.15	Verify that any defects that have been identified during the pre-start inspections have been completed / rectified or are in the process of being actioned.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
16	HV vs. Person	TE 00000246	Personnel, Equipment & Machinery Interaction [Men & Materials Transport]	CT.00016058	Equipment design and inspections -Brake tests (dynamic and static), steering, seatbelts, towing	CA.GRV.CCM.5.2.16	Challenge test a representative sample of operators and confirm their knowledge and understanding of the pre-start inspection system and reporting and rectifying defects.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
17	HV vs. Person	TE 00000246	Personnel, Equipment & Machinery Interaction [Men & Materials Transport]	CT.00016058	Equipment design and inspections -Brake tests (dynamic and static), steering, seatbelts, towing	CA.GRV.CCM.5.2.19	Verify that a scheduled inspection and maintenance regime has been implemented for the sample of mobile plant. Confirm that this inspection and maintenance regime includes regular brake testing (dynamic and static)	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
18	HV vs. Person	TE 00000246	Personnel, Equipment & Machinery Interaction [Men & Materials Transport]	CT.00016058	Equipment design and inspections -Brake tests (dynamic and static), steering, seatbelts, towing	CA.GRV.CCM.5.2.21	Where any defects were identified during inspections, verify that the relevant maintenance was undertaken to ensure the defect was rectified (i.e. review work orders and close-out of orders).	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
19	HV vs. Person	TE 00000246	Personnel, Equipment & Machinery Interaction [Men & Materials Transport]	CT.00016150	Introduction to site process	CA.GRV.CCM 6.2.1	Select a sample of mobile equipment currently in use on the surface (minimum 3 pieces of equipment), confirm that each has a current Compliant Equipment Sticker and Brake Test Sticker attached to the equipment. Validate compliance to GRO-307-HMP – Equipment Compliance.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
20	HV vs. Person	TE 00000246	Personnel, Equipment & Machinery Interaction [Men & Materials Transport]	CT.00016150	Introduction to site process	CA.GRV.CCM 6.2.2	For the sample of equipment inspected, confirm that there is a maintenance program established for each item and verify (through the work order system and inspection records) that any required maintenance is being undertaken as per the maintenance program.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
21	HV vs. Person	TE 00000246	Personnel, Equipment & Machinery Interaction [Men & Materials Transport]	CT.00016150	Introduction to site process	CA.GRV.CCM 6.2.3	For the sample of equipment inspected, confirm via a review of the Plant File (kept for each piece of equipment) that a Completed Equipment-Specific Inspection Form is available for each piece of equipment. Validate compliance to GRO-1629-HMP – Introduction of Underground Equipment.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
22	HV vs. Person	TE 00000246	Personnel, Equipment & Machinery Interaction [Men & Materials Transport]	CT.00016150	Introduction to site process	CA.GRV.CCM 6.2.4	Verify that inspection and maintenance records are being retained on the Plant File (as per the formalised schedule in the work order system).	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
23	HV vs. Person	TE 00000246	Personnel, Equipment & Machinery Interaction [Men & Materials Transport]	CT.00016150	Introduction to site process	CA.GRV.CCM 6.2.5	Verify that the results of each check were at an acceptable level that would allow the equipment to be approved for use on site.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
24	HV vs. Person	TE 00000246	Personnel, Equipment & Machinery Interaction [Men & Materials Transport]	CT.00016150	Introduction to site process	CA.GRV.CCM 6.2.6	Verify that the Introduction to Site checks were carried out by a competent and approved Equipment Compliance Inspector or the appointed Mechanical Engineering Manager.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
25	HV vs. Person	TE 00000246	Personnel, Equipment & Machinery Interaction [Men & Materials Transport]	CT.00016150	Introduction to site process	CA.GRV.CCM 6.2.7	Interview a representative sample of Authorised Equipment Inspectors / Competent People authorised to perform Introduction to Site Checks and confirm their knowledge of inspection requirements and acceptable levels of inspection results for each requirement.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
26	HV vs. Person	TE 00000246	Personnel, Equipment & Machinery Interaction [Men & Materials Transport]	CT.00016150	Introduction to site process	CA.GRV.CCM 6.2.8	Verify all equipment on site have completed Verification Dossiers and Required Certification	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
27	HV vs. Person	TE 00000246	Personnel, Equipment & Machinery Interaction [Men & Materials Transport]	CT.00016179	Operator training, authorisation and familiarisation	CA.GRV.CCM.7.2.1	Verify that the current Training Needs Analysis contains training and competency requirements (including any required refresher training) for mobile equipment.	Annual	Niehaus Wouter - [REDACTED]	Perks Jeffrey - [REDACTED]
28	HV vs. Person	TE 00000246	Personnel, Equipment & Machinery Interaction [Men & Materials Transport]	CT.00016179	Operator training, authorisation and familiarisation	CA.GRV.CCM.7.2.2	Conduct a workplace inspection and record names of all personnel observed to be operating mobile equipment. Review training records and/or training skills matrix to verify that ALL persons (employees and contractors) observed operating mobile equipment have the appropriate authorisation to operate the equipment.	Annual	Niehaus Wouter - [REDACTED]	Perks Jeffrey - [REDACTED]
29	HV vs. Person	TE 00000246	Personnel, Equipment & Machinery Interaction [Men & Materials Transport]	CT.00016179	Operator training, authorisation and familiarisation	CA.GRV.CCM.7.2.3	Review the results of the last internal or external audit conducted on the Training and Competency Scheme. Confirm that any non-conformances identified during the audit have been actioned (or are in the process of being actioned) and verify that the action taken has been implemented correctly and is effective.	Annual	Niehaus Wouter - [REDACTED]	Perks Jeffrey - [REDACTED]
30	Outburst	TE 00000272	Outburst	CT.00015695	Defined Threshold of 6m3/t - Validate that current gas threshold levels are still relevant for mining areas	CA.GRV.CCM 8.2.1	Review the Gas Drainage drilling design process currently undertaken at Grosvenor Mine and determine if the process is at a minimum industry standard and is in accordance with the Gas Drainage Design Standard.	Bi-Annually	Niehaus Wouter - [REDACTED]	Kostowski Raymond - [REDACTED]
31	Outburst	TE 00000272	Outburst	CT.00015695	Defined Threshold of 6m3/t - Validate that current gas threshold levels are still relevant for mining areas	CA.GRV.CCM 8.2.2	Verify Gas Drainage design considers the following: / Gas reservoir characteristics – determine how hard the seam is to drain / Geology of coal seam / Target gas content levels / Mine schedule time lines / Previous drilling experience in similar conditions	Bi-Annually	Niehaus Wouter - [REDACTED]	Kostowski Raymond - [REDACTED]
32	Outburst	TE 00000272	Outburst	CT.00015695	Defined Threshold of 6m3/t - Validate that current gas threshold levels are still relevant for mining areas	CA.GRV.CCM 8.2.3	Review Gas Drainage Plan/s to validate the following: / Plan/s are current and up-to-date / Plan/s contain up-to-date geological information / Plan/s are based on all available data (e.g. Desorbable gas contours, specific emission estimates using various models, gassiness, etc.)	Bi-Annually	Niehaus Wouter - [REDACTED]	Kostowski Raymond - [REDACTED]
33	Outburst	TE 00000272	Outburst	CT.00015695	Defined Threshold of 6m3/t - Validate that current gas threshold levels are still relevant for mining areas	CA.GRV.CCM 8.2.4	Plan/s are being implemented as per the Gas Drainage Design / Plan/s are regularly reviewed and updated as additional information is generated	Bi-Annually	Niehaus Wouter - [REDACTED]	Kostowski Raymond - [REDACTED]
34	Outburst	TE 00000272	Outburst	CT.00015695	Defined Threshold of 6m3/t - Validate that current gas threshold levels are still relevant for mining areas	CA.GRV.CCM 8.2.5	Select the records of three in-seam drill holes completed in the last six months. Check the hard copy records from these holes against their plot and information in the gas drainage plan. Confirm that names/numbers, dates, locations, directions and lengths of these holes in the electronic plan are in agreement with the original records.	Bi-Annually	Niehaus Wouter - [REDACTED]	Kostowski Raymond - [REDACTED]
35	Outburst	TE 00000272	Outburst	CT.00015695	Defined Threshold of 6m3/t - Validate that current gas threshold levels are still relevant for mining areas	CA.GRV.CCM 8.2.6	Select three in-seam drill holes that were intersected by development in the previous six months. Compare the location at which each borehole was intersected with the expected location shown on the plan. This check is to be completed using borehole intersections records and/or development shift reports. Look for discrepancies or consistent variation between the actual intersection point, and the intersection location shown on the plan.	Bi-Annually	Niehaus Wouter - [REDACTED]	Kostowski Raymond - [REDACTED]
36	Outburst	TE 00000272	Outburst	CT.00015695	Defined Threshold of 6m3/t - Validate that current gas threshold levels are still relevant for mining areas	CA.GRV.CCM 8.2.7	Where hard copies of the gas drainage plan are displayed around the mine site, confirm that the plans are up to date (within the required update interval).	Bi-Annually	Niehaus Wouter - [REDACTED]	Kostowski Raymond - [REDACTED]
37	Outburst	TE 00000272	Outburst	CT.00015710	Gas Drainage program to reduce / manage reservoir (gas flow database)	CA.GRV.CCM 9.2.1	Confirm that gas flow database is comprehensive and up to date. To do this check information related to current gas flow data sources (both surface and underground), confirming completeness and the records.	Bi-Annually	Niehaus Wouter - [REDACTED]	Kostowski Raymond - [REDACTED]

38	Outburst	TE 0000272	Outburst	CT.00015710	Gas Drainage program to reduce / manage reservoir (gas flow database)	CA.GRV.CCM 9.2.2	Confirm that database is up to date with most recent flow recording measurements (as up to date as practical). To do this, locate most recent gas flow measurement data, and confirm its entry into the database.	Bi-Annually	Niehaus Wouter - [REDACTED]	Kostowski Raymond - [REDACTED]
39	Outburst	TE 0000272	Outburst	CT.00015710	Gas Drainage program to reduce / manage reservoir (gas flow database)	CA.GRV.CCM 9.2.3	Confirm that flow measurements have been completed and recorded at the required frequency. Select two sampling locations and a random month from the previous six months, and audit records to ensure all required flow sampling was completed in that month.	Bi-Annually	Niehaus Wouter - [REDACTED]	Kostowski Raymond - [REDACTED]
40	Outburst	TE 0000272	Outburst	CT.00015710	Gas Drainage program to reduce / manage reservoir (gas flow database)	CA.GRV.CCM 9.2.4	Confirm that flow measurements are being accurately entered into the database. Select a sample of data from a random month from the previous six months and check that the data from each of the recording samples has been accurately entered into the database.	Bi-Annually	Niehaus Wouter - [REDACTED]	Kostowski Raymond - [REDACTED]
41	Outburst	TE 0000272	Outburst	CT.00015710	Gas Drainage program to reduce / manage reservoir (gas flow database)	CA.GRV.CCM 9.2.5	Check the quality of the records used as input data to the gas flow database (i.e. gas flow recording sheets). Select a sample of data from a random month from the previous six months and check: / Original records and correctly and securely stored / Quality and completeness of data recorded	Bi-Annually	Niehaus Wouter - [REDACTED]	Kostowski Raymond - [REDACTED]
42	Outburst	TE 0000272	Outburst	CT.00015710	Gas Drainage program to reduce / manage reservoir (gas flow database)	CA.GRV.CCM 9.2.6	Review any external reports or audits that have been undertaken of the gas flow database in the last 6 months and confirm that all actions as a result of these reviews have been completed and are effective.	Bi-Annually	Niehaus Wouter - [REDACTED]	Kostowski Raymond - [REDACTED]
43	Outburst	TE 0000272	Outburst	CT.00015710	Gas Drainage program to reduce / manage reservoir (gas flow database)	CA.GRV.CCM 9.2.7	Confirm (by sighting evidence of a report) that any internal or external reviews of the database have been completed as scheduled, and that any actions arising from these reviews have been appropriately addressed.	Bi-Annually	Niehaus Wouter - [REDACTED]	Kostowski Raymond - [REDACTED]
44	Outburst	TE 0000272	Outburst	CT.00015710	Gas Drainage program to reduce / manage reservoir (gas flow database)	CA.GRV.CCM 9.2.8	Review current trends of gas flows from the database. Check that any trigger levels have been activated if necessary.	Bi-Annually	Niehaus Wouter - [REDACTED]	Kostowski Raymond - [REDACTED]
45	Outburst	TE 0000272	Outburst	CT.00015710	Gas Drainage program to reduce / manage reservoir (gas flow database)	CA.GRV.CCM 9.2.9	Confirm that the database is backed up to secure storage (regularly), and access is only permitted by authorised users.	Bi-Annually	Niehaus Wouter - [REDACTED]	Kostowski Raymond - [REDACTED]
46	Outburst	TE 0000272	Outburst	CT.00015710	Gas Drainage program to reduce / manage reservoir (gas flow database)	CA.GRV.CCM.9.2.10	Verify the persons managing, updating or accessing the gas flow database have the appropriate competency and authorisation.	Bi-Annually	Niehaus Wouter - [REDACTED]	Kostowski Raymond - [REDACTED]
47	Outburst	TE 0000272	Outburst	CT.00015687	Maintain a physical barrier of 15m between proposed workings and Maximum Gas Threshold Values (from rib line)	CA.GRV.CCM.10.2.1	Verify that all current mining areas have a current Permit to Mine.	Monthly	Niehaus Wouter - [REDACTED]	Brown, David - [REDACTED]
48	Outburst	TE 0000272	Outburst	CT.00015687	Maintain a physical barrier of 15m between proposed workings and Maximum Gas Threshold Values (from rib line)	CA.GRV.CCM.10.2.2	Verify that the Permit to Mine identifies a 15m solid barrier exists between ALL proposed workings and ALL areas which have not been shown to be below Outburst Threshold Levels.	Monthly	Niehaus Wouter - [REDACTED]	Brown, David - [REDACTED]
49	Outburst	TE 0000272	Outburst	CT.00015687	Maintain a physical barrier of 15m between proposed workings and Maximum Gas Threshold Values (from rib line)	CA.GRV.CCM.10.2.3	Verify the ERZ Controller knows where mining is occurring in relation to the Permit to Mine and that the mining being conducted is in accordance with the Permit to Mine.	Monthly	Niehaus Wouter - [REDACTED]	Brown, David - [REDACTED]
50	Contact with live conductors	TE 0000253	Electrocution	CT.00016697	Certified cable repairer	CA.GRV.CCM.4.2.2	Verify that the documentation for repaired cables is received from the cable repairer and is to AS 1747	Bi-Annually	Paganoni Peter - [REDACTED]	Bailey Ian - [REDACTED]
51	Outburst	TE 0000272	Outburst	CT.00015729	Review process for drained area - Drilling of sufficient and representative Gas Compliance Cores to determine residual Gas levels	CA.GRV.CCM.11.2.1	Verify that compliance cores have been drilled of a representative sample of the drained coal seam (from previous 6 months) outlined on the Drainage Plan/s and have been sent to a quality assured company to conduct gas content evaluation.	Bi-Annually	Niehaus Wouter - [REDACTED]	Kostowski Raymond - [REDACTED]
52	Outburst	TE 0000272	Outburst	CT.00015729	Review process for drained area - Drilling of sufficient and representative Gas Compliance Cores to determine residual Gas levels	CA.GRV.CCM.11.2.2	Confirm that data received from the core sampling review Company has been reviewed and presented to the Permit to Mine Committee.	Bi-Annually	Niehaus Wouter - [REDACTED]	Kostowski Raymond - [REDACTED]
53	Outburst	TE 0000272	Outburst	CT.00015671	pre-installed survey control of proposed Mine drivages	CA.GRV.CCM.12.2.1	Verify that there is a current Mine Plan (updated within the last month).	Monthly	Niehaus Wouter - [REDACTED]	Brown, David - [REDACTED]
54	Outburst	TE 0000272	Outburst	CT.00015671	pre-installed survey control of proposed Mine drivages	CA.GRV.CCM.12.2.2	Verify that the last progressive mine survey was conducted within 150m of driven face.	Monthly	Niehaus Wouter - [REDACTED]	Brown, David - [REDACTED]
55	Outburst	TE 0000272	Outburst	CT.00015671	pre-installed survey control of proposed Mine drivages	CA.GRV.CCM.12.2.3	Verify that the Offline Drivage Report has been issued (within the last month).	Monthly	Niehaus Wouter - [REDACTED]	Brown, David - [REDACTED]
56	Outburst	TE 0000272	Outburst	CT.00015671	pre-installed survey control of proposed Mine drivages	CA.GRV.CCM.12.2.4	Verify that Mine Plan is displayed for all mine workers.	Monthly	Niehaus Wouter - [REDACTED]	Brown, David - [REDACTED]
57	Outburst	TE 0000272	Outburst	CT.00015671	pre-installed survey control of proposed Mine drivages	CA.GRV.CCM.12.2.5	Verify roadway height is as designed (review geological mapping reports).	Monthly	Niehaus Wouter - [REDACTED]	Brown, David - [REDACTED]
58	Outburst	TE 0000272	Outburst	CT.00015693	Define Threshold value of:- Desorption Rate Index - 900- QM - 7m3/t - Validation of Gas Thresholds at Grosvenor Mine	CA.GRV.CCM.13.2.1	Validate via the outburst threshold (ie geogas) Geogas Report that the current gas thresholds levels are still relevant for mining areas	Annual	Niehaus Wouter - [REDACTED]	Mohr Logan - [REDACTED]
59	Spon Comb in sealed goaf	TE 0000244	Spontaneous Combustion	CT.00017390	Propensity indicators testing [Moist Adiabatic Test, Relative Ignition Test, R70]	CA.GRV.CCM.14.2.1	Verify that Spontaneous Combustion Propensity Testing has been completed and representative of the mined area. Visually review the testing report for the mined area and compare to previous reports completed and identify any significant change	Annual	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
60	Spon Comb in sealed goaf	TE 0000244	Spontaneous Combustion	CT.00017390	Propensity indicators testing [Moist Adiabatic Test, Relative Ignition Test, R70]	CA.GRV.CCM.14.2.2	If testing has not been completed, confirm that plans, triggers or schedules are in place to ensure the testing will take place.	Annual	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
61	Spon Comb in sealed goaf	TE 0000244	Spontaneous Combustion	CT.00017390	Propensity indicators testing [Moist Adiabatic Test, Relative Ignition Test, R70]	CA.GRV.CCM.14.2.3	Confirm that Second Workings Risk Assessment contains results of Spontaneous Combustion Propensity Testing	Annual	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
62	Spon Comb in sealed goaf	TE 0000244	Spontaneous Combustion	CT.00017390	Propensity indicators testing [Moist Adiabatic Test, Relative Ignition Test, R70]	CA.GRV.CCM.14.2.4	Review the monthly report provided to the Underground mine manager on the status of the goaf atmosphere model. Check the records to confirm that the modelling review has occurred each month (by random sample of the previous twelve months).	Annual	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
63	Spon Comb in sealed goaf	TE 0000244	Spontaneous Combustion	CT.00017390	Propensity indicators testing [Moist Adiabatic Test, Relative Ignition Test, R70]	CA.GRV.CCM.14.2.5	Check that the relevant TARPS have been reviewed prior to each and any longwall seal up that has taken place in the previous twelve months. Confirm that the review was appropriate, sufficiently rigorous, and included a review of historical gas modelling records (e.g. CO Make, CO PPM, other hydrocarbons, gas ratios, goaf stream). Ensure the review has been documented, and that the updated TARPS have been distributed across site.	Annual	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
64	Transport Buses To-From Operation Tour Buses	TE 0000255	Fatal Incident as Passenger on Bus	CT.00016338	Greyhound FFW drug testing	CA.GRV.CCM.16.2.1	From a sample of reports from 3 of the last 6 months verify that FFW BAC testing has occurred prior to the bus driver starting shift	Bi-Annually	Thomson Sandra - [REDACTED]	Westerman Leisa - [REDACTED]
65	Transport Buses To-From Operation Tour Buses	TE 0000255	Fatal Incident as Passenger on Bus	CT.00016338	Greyhound FFW drug testing	CA.GRV.CCM.16.2.2	From the sample also validate that a Greyhound Coordinator representative has signed off on the FFW test as a witness and this has occurred for each test.	Bi-Annually	Thomson Sandra - [REDACTED]	Westerman Leisa - [REDACTED]
66	Transport Buses To-From Operation Tour Buses	TE 0000255	Fatal Incident as Passenger on Bus	CT.00016338	Greyhound FFW drug testing	CA.GRV.CCM.16.2.3	Review a sample of 3 from the last 6 months internal audits from the Bus company completed for FFW testing and fatigue management. Where an issue has been identified obtain information from the bus company about action taken to rectify the issue	Bi-Annually	Thomson Sandra - [REDACTED]	Westerman Leisa - [REDACTED]
67	Transport Buses To-From Operation Tour Buses	TE 0000255	Fatal Incident as Passenger on Bus	CT.00016291	Driver behaviour verification - audit for driver behaviours	CA.GRV.CCM.17.2.1	Obtain a sample from the last 6 months from the bus company a report of driver behaviours for the routes and drivers used by the mine. Verify from the bus company if these driver behaviours have been actioned and what the outcome of the action was	Bi-Annually	Thomson Sandra - [REDACTED]	Westerman Leisa - [REDACTED]
68	Transport Buses To-From Operation Tour Buses	TE 0000255	Fatal Incident as Passenger on Bus	CT.00016343	Fit for purpose equipment - NHVAS Accreditation	CA.GRV.CCM.18.2.1	Obtain a copy of the NHVAS certification for the bus company and ensure it is current	Bi-Annually	Paganoni Peter - [REDACTED]	Westerman Leisa - [REDACTED] Owen Hannigan - [REDACTED]
69	Transport Buses To-From Operation Tour Buses	TE 0000255	Fatal Incident as Passenger on Bus	CT.00016343	Fit for purpose equipment - NHVAS Accreditation	CA.GRV.CCM.18.2.2	Obtain a copy of the Certificate of Inspection from QLD transport for the bus used by the mine and ensure it is current	Bi-Annually	Paganoni Peter - [REDACTED]	Westerman Leisa - [REDACTED] Owen Hannigan - [REDACTED]
70	Transport Buses To-From Operation Tour Buses	TE 0000255	Fatal Incident as Passenger on Bus	CT.00016343	Fit for purpose equipment - NHVAS Accreditation	CA.GRV.CCM.18.2.3	Obtain a sample of pre START Inspections conducted by the drivers and review the information provided. Where a defect has been identified, obtain information from the bus company that the defect has been rectified.	Bi-Annually	Paganoni Peter - [REDACTED]	Westerman Leisa - [REDACTED] Owen Hannigan - [REDACTED]
71	Transport Buses To-From Operation Tour Buses	TE 0000255	Fatal Incident as Passenger on Bus	CT.00016343	Fit for purpose equipment - NHVAS Accreditation	CA.GRV.CCM.18.2.4	Audit 3 contractors who provide their employees a bus/mini-bus/multi person transport vehicle and ensure vehicles are mechanically compliant. Specifically check vehicle is serviced regularly and roadway maintained.	Bi-Annually	Paganoni Peter - [REDACTED]	Westerman Leisa - [REDACTED] Owen Hannigan - [REDACTED]
72	Transport Buses To-From Operation Tour Buses	TE 0000255	Fatal Incident as Passenger on Bus	CT.00016319	Emergency Response - Annual Evacuation training	CA.GRV.CCM.19.2.1	Verify from the Bus company that the driver has had an annual refresher in regards to fire extinguisher training and emergency evacuation of the bus.	Annual	Thomson Sandra - [REDACTED]	Westerman Leisa - [REDACTED]
73	Transport Buses To-From Operation Tour Buses	TE 0000255	Fatal Incident as Passenger on Bus	CT.00016319	Emergency Response - Annual Evacuation training	CA.GRV.CCM.19.2.2	Select a sample of 2 bus drivers and verify their knowledge of fire extinguisher operation bus emergency exit points and the bus company evacuation procedures	Annual	Thomson Sandra - [REDACTED]	Westerman Leisa - [REDACTED]
74	Transport Buses To-From Operation Tour Buses	TE 0000255	Fatal Incident as Passenger on Bus	CT.00016315	Driver Trained Experienced Competent & Authorised	CA.GRV.CCM.20.2.1	Complete an audit of all Bus Drivers [assigned to Grosvenor] to ensure currency of: / authorisations / training records, / licences / FFW records / Review incident history in the previous year to ensure that any non-compliances have been effectively addressed	Annual	Thomson Sandra - [REDACTED]	Westerman Leisa - [REDACTED]
75	Fire within infrastructure	TE 0000248	Underground Fire	CT.00015359	Emergency Breathing Apparatus - SCSRs - CABA and Quick-Fill Stations and Underground Air Booster Pump [to fill the Quick-Fill Station]CT.00016780 - Provision of adequate SCSRs units	CA.GRV.CCM.21.2.1	Verify that all breathing apparatus including type, range, quantity and location/s have been determined in consultation with a competent person (e.g. Mines Rescue, Breathing Apparatus Supplier, etc.) and considers the length of, and associated hazards with, all potential escapeways.	Quarterly	Bachmann Kate - [REDACTED]	Parsons-Young, Neil - [REDACTED]
76	Fire within infrastructure	TE 0000248	Underground Fire	CT.00015359	Emergency Breathing Apparatus - SCSRs - CABA and Quick-Fill Stations and Underground Air Booster Pump [to fill the Quick-Fill Station]CT.00016780 - Provision of adequate SCSRs units	CA.GRV.CCM.21.2.2	Inspect a sample of relevant storage locations/caches of breathing apparatus (include surface dozer/s and underground) to verify that breathing apparatus is available (as per competent person recommendations) and maintained to standard.	Quarterly	Bachmann Kate - [REDACTED]	Parsons-Young, Neil - [REDACTED]
77	Fire within infrastructure	TE 0000248	Underground Fire	CT.00015359	Emergency Breathing Apparatus - SCSRs - CABA and Quick-Fill Stations and Underground Air Booster Pump [to fill the Quick-Fill Station]CT.00016780 - Provision of adequate SCSRs units	CA.GRV.CCM.21.2.3	Verify against the work order system that all routine inspections of breathing apparatus have been conducted for the past 12 months as per the site inspection requirements.	Quarterly	Bachmann Kate - [REDACTED]	Parsons-Young, Neil - [REDACTED]



78	Fire within infrastructure	TE 0000248	Underground Fire	CT.00015359	Emergency Breathing Apparatus - SCSRs - CABA and Quick-Fill Stations and Underground Air Booster Pump [to fill the Quick-Fill Station]CT.00016780 - Provision of adequate SCSRs units	CA.GRV.CCM.21.2.4	Verify that Escapeway Plan is current.	Quarterly	Bachmann Kate - [REDACTED]	Parsons-Young, Neil - [REDACTED]
79	Emergency Escape Apparatus, Facilities, Resources Not Available	TE 0000243	Failure of the Emergency Response System	CT.00016777	Multiple and redundant communications available from underground to surface and to off-site emergency care professionals; Communications systems in place are: Underground hard wired telephones and DACs; Surface hard wired telephones, mobile phones, satellite phones	CA.GRV.CCM.22.2.1	Verify that a sample (i.e. at least 10 - 15%) of resources and equipment installed as part of the mine communications systems (IS telephones, DACs, Wi-Fi phones, PED) are available and maintained to standard.	Bi-Annually	Bachmann Kate - [REDACTED]	Bailey Ian - [REDACTED]
80	Emergency Escape Apparatus, Facilities, Resources Not Available	TE 0000243	Failure of the Emergency Response System	CT.00016777	Multiple and redundant communications available from underground to surface and to off-site emergency care professionals; Communications systems in place are: Underground hard wired telephones and DACs; Surface hard wired telephones, mobile phones, satellite phones	CA.GRV.CCM.22.2.2	Verify against the work order system that all routine inspections of this equipment have been conducted for the past 12 months as per the site inspection requirements.	Bi-Annually	Bachmann Kate - [REDACTED]	Bailey Ian - [REDACTED]
81	Emergency Escape Apparatus, Facilities, Resources Not Available	TE 0000243	Failure of the Emergency Response System	CT.00016777	Multiple and redundant communications available from underground to surface and to off-site emergency care professionals; Communications systems in place are: Underground hard wired telephones and DACs; Surface hard wired telephones, mobile phones, satellite phones	CA.GRV.CCM.22.2.3	Review communication drawing to ensure it is up-to-date.	Bi-Annually	Bachmann Kate - [REDACTED]	Bailey Ian - [REDACTED]
82	Emergency Escape Apparatus, Facilities, Resources Not Available	TE 0000243	Failure of the Emergency Response System	CT.00016774	On-going actual walk-out tests conducted with cross-section of workers	CA.GRV.CCM.23.2.1	Verify that each crew has participated in a Level 3 Emergency Exercise in the past 12 months.	Annual	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
83	Emergency Escape Apparatus, Facilities, Resources Not Available	TE 0000243	Failure of the Emergency Response System	CT.00016774	On-going actual walk-out tests conducted with cross-section of workers	CA.GRV.CCM.23.2.2	Verify that the actual walk-out distances, duration of CABA have been recorded as part of the exercise assessment and report	Annual	Bachmann Kate - [REDACTED]	Parsons-Young, Neil - [REDACTED]
84	Emergency Escape Apparatus, Facilities, Resources Not Available	TE 0000243	Failure of the Emergency Response System	CT.00016774	On-going actual walk-out tests conducted with cross-section of workers	CA.GRV.CCM.23.2.3	Review the reports of emergency exercises conducted to confirm that the spacings / availability of the SCSRS and CABA stations are adequate for the mine requirements for next 12 months	Annual	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
85	Emergency Escape Apparatus, Facilities, Resources Not Available	TE 0000243	Failure of the Emergency Response System	CT.00016773	Practiced emergency response exercises are conducted in accordance Recognised Standard 8 CT.00016778 - Practiced emergency response exercises are conducted in accordance with Recognised Standard 8	CA.GRV.CCM.24.2.1	Verify that the Mine Emergency Response System (MERS) has been comprehensively tested (i.e. a Level 2 emergency exercise has been conducted) in the past 12 months.	Annual	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
86	Emergency Escape Apparatus, Facilities, Resources Not Available	TE 0000243	Failure of the Emergency Response System	CT.00016773	Practiced emergency response exercises are conducted in accordance Recognised Standard 8 CT.00016778 - Practiced emergency response exercises are conducted in accordance with Recognised Standard 8	CA.GRV.CCM.24.2.2	Verify that the test included activation of the MT or that an MT desktop simulation has occurred in the past 12 months.	Annual	Bachmann Kate - [REDACTED]	Parsons-Young, Neil - [REDACTED]
87	Emergency Escape Apparatus, Facilities, Resources Not Available	TE 0000243	Failure of the Emergency Response System	CT.00016773	Practiced emergency response exercises are conducted in accordance Recognised Standard 8 CT.00016778 - Practiced emergency response exercises are conducted in accordance with Recognised Standard 8	CA.GRV.CCM.24.2.3	Verify that a Level 2 Emergency Exercise included mobilization of the QMRS inertisation unit in the past 5 years.	Annual	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
88	Emergency Escape Apparatus, Facilities, Resources Not Available	TE 0000243	Failure of the Emergency Response System	CT.00016773	Practiced emergency response exercises are conducted in accordance Recognised Standard 8 CT.00016778 - Practiced emergency response exercises are conducted in accordance with Recognised Standard 8	CA.GRV.CCM.24.2.4	Verify that each Control Room Operator has participated in a Level 4 Emergency Exercise (potential scenarios and action planning) in the past 12months.	Annual	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
89	Emergency Escape Apparatus, Facilities, Resources Not Available	TE 0000243	Failure of the Emergency Response System	CT.00016773	Practiced emergency response exercises are conducted in accordance Recognised Standard 8 CT.00016778 - Practiced emergency response exercises are conducted in accordance with Recognised Standard 8	CA.GRV.CCM.24.2.5	Verify that exercises conducted over the past 12 months have included realistic scenario based on the potential emergency situations identified in the MERS.	Annual	Bachmann Kate - [REDACTED]	Parsons-Young, Neil - [REDACTED]
90	Emergency Escape Apparatus, Facilities, Resources Not Available	TE 0000243	Failure of the Emergency Response System	CT.00016773	Practiced emergency response exercises are conducted in accordance Recognised Standard 8 CT.00016778 - Practiced emergency response exercises are conducted in accordance with Recognised Standard 8	CA.GRV.CCM.24.2.6	Verify that a schedule of Emergency Response exercises (Level 2, Level 3 and Level 4) has been developed for Grosvenor for the next 12 months.	Annual	Bachmann Kate - [REDACTED]	Parsons-Young, Neil - [REDACTED]
91	Emergency Escape Apparatus, Facilities, Resources Not Available	TE 0000243	Failure of the Emergency Response System	CT.00016773	Practiced emergency response exercises are conducted in accordance Recognised Standard 8 CT.00016778 - Practiced emergency response exercises are conducted in accordance with Recognised Standard 8	CA.GRV.CCM.24.2.7	Verify that the schedule includes realistic scenarios based on the potential emergency situations identified in the MERS Manual.	Annual	Bachmann Kate - [REDACTED]	Parsons-Young, Neil - [REDACTED]
92	Emergency Escape Apparatus, Facilities, Resources Not Available	TE 0000243	Failure of the Emergency Response System	CT.00016773	Practiced emergency response exercises are conducted in accordance Recognised Standard 8 CT.00016778 - Practiced emergency response exercises are conducted in accordance with Recognised Standard 8	CA.GRV.CCM.24.2.8	Verify that the schedule has been developed to include a cross-section of the workforce and different shifts (i.e. ensure that all crews / ERZ Controllers / shifts are exposed to emergency exercises – not just day shift exercises or the same crew)	Annual	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
93	Emergency Escape Apparatus, Facilities, Resources Not Available	TE 0000243	Failure of the Emergency Response System	CT.00016773	Practiced emergency response exercises are conducted in accordance Recognised Standard 8 CT.00016778 - Practiced emergency response exercises are conducted in accordance with Recognised Standard 8	CA.GRV.CCM.24.2.9	Review the reports of emergency exercises conducted to confirm that the capability of the site has been tested during the exercise (e.g. equipment, resourcing, etc.).	Annual	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
94	Emergency Escape Apparatus, Facilities, Resources Not Available	TE 0000243	Failure of the Emergency Response System	CT.00016773	Practiced emergency response exercises are conducted in accordance Recognised Standard 8 CT.00016778 - Practiced emergency response exercises are conducted in accordance with Recognised Standard 8	CA.GRV.CCM.24.2.10	Review Emergency Response Exercise have been scenario based to provide confidence that only 1 SCSR is required to reach the next cache	Annual	Bachmann Kate - [REDACTED]	Parsons-Young, Neil - [REDACTED]
95	Emergency Escape Apparatus, Facilities, Resources Not Available	TE 0000243	Failure of the Emergency Response System	CT.00016773	Practiced emergency response exercises are conducted in accordance Recognised Standard 8 CT.00016778 - Practiced emergency response exercises are conducted in accordance with Recognised Standard 8	CA.GRV.CCM.24.2.11	Interview a sample of the workforce to verify that they have either been involved in an emergency exercise in the past 12 months (including what the scenario was and the outcomes / any learnings from the exercise).	Annual	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
96	Spon Comb in sealed goaf	TE 0000244	Spontaneous Combustion	CT.00017413	Surface & in-Seam boreholes are located and sealed/grouted	CA.GRV.CCM.15.2.1	Verify that seal is installed as per plan.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
97	Spon Comb in sealed goaf	TE 0000244	Spontaneous Combustion	CT.00017413	Surface & in-Seam boreholes are located and sealed/grouted	CA.GRV.CCM.15.2.2	Verify the seals and rib/roof/floor at 3 non adjacent seal sites have not deteriorated to allow leakage.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
98	Spon Comb in sealed goaf	TE 0000244	Spontaneous Combustion	CT.00017413	Surface & in-Seam boreholes are located and sealed/grouted	CA.GRV.CCM.15.2.3	Review of VentSim model with Ventilation Officer: / Identify high pressure differential points across seals.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
99	Spon Comb in sealed goaf	TE 0000244	Spontaneous Combustion	CT.00017413	Surface & in-Seam boreholes are located and sealed/grouted	CA.GRV.CCM.15.2.4	Verify that tressure differentials are measured at seal sites during inspections /or when bag samples are taken.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
100	Spon Comb in sealed goaf	TE 0000244	Spontaneous Combustion	CT.00017413	Surface & in-Seam boreholes are located and sealed/grouted	CA.GRV.CCM.15.2.5	Review Tube Bundle points located in goaf areas for elevated CO or O2	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
101	Spon Comb in sealed goaf	TE 0000244	Spontaneous Combustion	CT.00017413	Surface & in-Seam boreholes are located and sealed/grouted	CA.GRV.CCM.15.2.6	Review mined area in last quarter does not have open boreholes and if there were that they have been sealed and no leakage.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
102	Spon Comb in sealed goaf	TE 0000244	Spontaneous Combustion	CT.00017413	Surface & in-Seam boreholes are located and sealed/grouted	CA.GRV.CCM.15.2.7	Review for inertisation equipment availability (e.g. maintenance schedule / work order). / Identify any failures/stoppages of inertisation equipment and its impact.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
103	Spon Comb in sealed goaf	TE 0000244	Spontaneous Combustion	CT.00017413	Surface & in-Seam boreholes are located and sealed/grouted	CA.GRV.CCM.15.2.8	Review plan of inert lines is current.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
104	Emergency Escape Apparatus, Facilities, Resources Not Available	TE 0000243	Failure of the Emergency Response System	CT.00016771	Mine Design and Planning required to provide for two escapeways from all parts of the mine	CA.GRV.CCM.25.2.1	Verify that there is a current Mine Plan (updated within the last month).	Annual	Bachmann Kate - [REDACTED]	Parsons-Young, Neil - [REDACTED]
105	Fire within infrastructure	TE 0000248	Underground Fire	CT.00015415	Provision of First Aid CT 00016776 - Fire Fighting Resources, First Aid Kits, Trauma Kits & Emergency Pods located at key locations throughout the mine	CA.GRV.CCM.26.2.1	Verify that first aid equipment (including electrical first aid), including range, quantity and location/s, has been determined in consultation with a competent person (e.g. Doctor) and considers all potential emergency scenarios.	Annual	Bachmann Kate - [REDACTED]	Parsons-Young, Neil - [REDACTED]
106	Fire within infrastructure	TE 0000248	Underground Fire	CT.00015415	Provision of First Aid CT 00016776 - Fire Fighting Resources, First Aid Kits, Trauma Kits & Emergency Pods located at key locations throughout the mine	CA.GRV.CCM.26.2.2	Inspect a sample of relevant locations of first aid equipment (both on the surface and underground) to verify that the first aid equipment is available (as per competent person recommendations) and maintained to standard.	Annual	Bachmann Kate - [REDACTED]	Parsons-Young, Neil - [REDACTED]
107	Fire within infrastructure	TE 0000248	Underground Fire	CT.00015415	Provision of First Aid CT 00016776 - Fire Fighting Resources, First Aid Kits, Trauma Kits & Emergency Pods located at key locations throughout the mine	CA.GRV.CCM.26.2.3	Verify against the work order system that all routine inspections of first aid equipment have been conducted for the past 12 months as per the site inspection requirements.	Annual	Bachmann Kate - [REDACTED]	Parsons-Young, Neil - [REDACTED]
108	Fire within infrastructure	TE 0000248	Underground Fire	CT.00015415	Provision of First Aid CT 00016776 - Fire Fighting Resources, First Aid Kits, Trauma Kits & Emergency Pods located at key locations throughout the mine	CA.GRV.CCM.26.2.4	Verify a sample of Statutory Inspections to check that first aid equipment is being inspected.	Annual	Bachmann Kate - [REDACTED]	Parsons-Young, Neil - [REDACTED]
109	Fire within infrastructure	TE 0000248	Underground Fire	CT.00015415	Provision of First Aid CT 00016776 - Fire Fighting Resources, First Aid Kits, Trauma Kits & Emergency Pods located at key locations throughout the mine	CA.GRV.CCM.26.2.5	Check training records to determine percentage of workforce trained in First Aid.	Annual	Bachmann Kate - [REDACTED]	Parsons-Young, Neil - [REDACTED]
110	Fire within infrastructure	TE 0000248	Underground Fire	CT.00015415	Provision of First Aid CT 00016776 - Fire Fighting Resources, First Aid Kits, Trauma Kits & Emergency Pods located at key locations throughout the mine	CA.GRV.CCM.26.2.6	Review Maintenance & Pre-Start records to ensure that the Emergency Vehicle / Ambulance kept on the surface for the purpose has been maintained, available and is Fit-for-Purpose.	Annual	Bachmann Kate - [REDACTED]	Parsons-Young, Neil - [REDACTED]
111	Emergency Escape Apparatus, Facilities, Resources Not Available	TE 0000243	Failure of the Emergency Response System	CT.00016779	Lifelines directional cones; Reflective Signage; Walking canes [blind-man canes]	CA.GRV.CCM.27.2.1	Verify that all resources and equipment installed to assist persons to escape in Poor Visibility (Life Lines, Reflective Signs, Droppers, Wind Chimes, Walking Canes) are available and maintained to standard.	Annual	Bachmann Kate - [REDACTED]	Parsons-Young, Neil - [REDACTED]
112	Emergency Escape Apparatus, Facilities, Resources Not Available	TE 0000243	Failure of the Emergency Response System	CT.00016779	Lifelines directional cones; Reflective Signage; Walking canes [blind-man canes]	CA.GRV.CCM.27.2.2	Verify against the work order system that all routine inspections of this equipment have been conducted for the past 12 months as per the site inspection requirements.	Annual	Bachmann Kate - [REDACTED]	Parsons-Young, Neil - [REDACTED]
113	Emergency Escape Apparatus, Facilities, Resources Not Available	TE 0000243	Failure of the Emergency Response System	CT.00016772	Define requirements for resources, equipment and facilities contained in the Mines Rescue Agreement	CA.GRV.CCM.28.2.1	Verify that all resources and equipment required as defined in the site Mines Rescue Agreement are available and maintained to standard.	Annual	Bachmann Kate - [REDACTED]	Parsons-Young, Neil - [REDACTED]
114	Emergency Escape Apparatus, Facilities, Resources Not Available	TE 0000243	Failure of the Emergency Response System	CT.00016772	Define requirements for resources, equipment and facilities contained in the Mines Rescue Agreement	CA.GRV.CCM.28.2.2	Verify against the work order system that all routine inspections of this equipment have been conducted for the past 12 months as per the site inspection requirements.	Annual	Bachmann Kate - [REDACTED]	Parsons-Young, Neil - [REDACTED]
115	Emergency Escape Apparatus, Facilities, Resources Not Available	TE 0000243	Failure of the Emergency Response System	CT.00016775	Underground Tag Board and Procedures: Surface Entrances	CA.GRV.CCM.29.2.1	Surface Tag Boards / Verify that all Tags are located in correct hooks including Name, Lamp and SCSR Number and Location.	Quarterly	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
116	Emergency Escape Apparatus, Facilities, Resources Not Available	TE 0000243	Failure of the Emergency Response System	CT.00016775	Underground Tag Board and Procedures: Surface Entrances	CA.GRV.CCM.29.2.2	Inspect a sample of shift manning and absenteeism reports to verify they are being correctly completed.	Quarterly	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
117	Emergency Escape Apparatus, Facilities, Resources Not Available	TE 0000243	Failure of the Emergency Response System	CT.00016775	Underground Tag Board and Procedures: Surface Entrances	CA.GRV.CCM.29.2.3	Verify against a sample of Undermanager Work Orders for daily Review of Tag Boards, that the reviews are being conducted to a standard and any corrective actions are defined, entered into the Action Tracking System and tracked for Close-Out.	Quarterly	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
118	Emergency Escape Apparatus, Facilities, Resources Not Available	TE 0000243	Failure of the Emergency Response System	CT.00016775	Underground Tag Board and Procedures: Surface Entrances	CA.GRV.CCM.29.2.4	Interview a sample of the workforce to determine if there have been any occasions in the past 12 months where they have failed to use, or noticed other persons not using, the Tag Boards as required.	Quarterly	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
119	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015256	Water spray design & maintenance	CA.GRV.CCM.30.2.1	Review a representative sample of shearer equipment maintenance records and confirm that equipment water sprays are being inspected and maintained in a fit for purpose state.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
120	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015256	Water spray design & maintenance	CA.GRV.CCM.30.2.2	Review a representative sample of equipment maintenance records for each continuous miner and confirm that equipment water sprays are being inspected and maintained in a fit for purpose state.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]

121	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015256	Water spray design & maintenance	CA.GRV.CCM.30.2.3	Review a representative sample of equipment maintenance records for every conveyor within the mine and confirm that water sprays on loading and transfer points are being inspected and maintained in a fit for purpose state.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
122	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015256	Water spray design & maintenance	CA.GRV.CCM.30.2.4	Review a representative sample of equipment maintenance records for any other equipment fitted with water sprays (for the purposes of dust suppression) and confirm that the water sprays are being inspected and maintained in a fit for purpose state.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
123	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015256	Water spray design & maintenance	CA.GRV.CCM.30.2.5	Physically inspect to confirm that water sprays are operational on the following equipment: / Conveyors (representative sample and not the same ones checked on the previous 6-monthly checklist)	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
124	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015256	Water spray design & maintenance	CA.GRV.CCM.30.2.6	Other equipment fitted with water sprays for dust suppression (representative sample and not the same ones checked on the previous 6-monthly checklist)	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
125	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015256	Water spray design & maintenance	CA.GRV.CCM.30.2.7	Review all work orders generated as a result of water sprays not being operational and confirm that all actions have been completed.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
126	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015218	Stone dusting	CA.GRV.CCM.31.2.1	Review a representative sample of completed Roadway Dust Reporting Forms to confirm that redusting has taken place for any failed sampling indicated as follows: 85% zone – within 12 hours of report being posted	Quarterly	Niehaus Wouter - [REDACTED]	Evans Troy - [REDACTED]
127	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015218	Stone dusting	CA.GRV.CCM.31.2.2	80% zone (all roadways and cut-throughs in a 200m zone at start of the panel) – within 12 hours of report being posted / 80% zone (all other return roadways and cut-throughs) – within 7 days of report being posted / 70% zone – within 7 days of report being posted	Quarterly	Niehaus Wouter - [REDACTED]	Evans Troy - [REDACTED]
128	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015218	Stone dusting	CA.GRV.CCM.31.2.3	Review a representative sample of Roadway Dust Reporting Forms and the Trending Spreadsheets to confirm that stonedust sample failure rate is at an acceptable level.	Quarterly	Niehaus Wouter - [REDACTED]	Evans Troy - [REDACTED]
129	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015218	Stone dusting	CA.GRV.CCM.31.2.4	Interview the Process Coordinators to confirm their knowledge of redusting timeframes following failed sampling and confirm that they have adequate resources to arrange for redusting of failed (as a result of analysis) or substandard (as a result of their inspections) areas.	Quarterly	Niehaus Wouter - [REDACTED]	Evans Troy - [REDACTED]
130	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015218	Stone dusting	CA.GRV.CCM.31.2.5	Confirm with Process Superintendents that they will stop production if redusting of failed areas has not occurred within the specified timeframe (nominally 12 hours for 85% and 12 hours or 7 days depending on location for 80% & 70% zones) until such time as the work is completed.	Quarterly	Niehaus Wouter - [REDACTED]	Evans Troy - [REDACTED]
131	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015218	Stone dusting	CA.GRV.CCM.31.2.6	Review Stonedust Trending Spreadsheet to confirm that dust laying is effective.	Quarterly	Niehaus Wouter - [REDACTED]	Evans Troy - [REDACTED]
132	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015236	Dilution through ventilation	CA.GRV.CCM.32.2.1	Select a production panel in the underground workings. Audit the sample area against the control requirements identified in the SOP for Ventilating Workplaces to ensure that the controls are in place and effective.	Quarterly	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
133	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015236	Dilution through ventilation	CA.GRV.CCM.32.2.2	Review the Development and Longwall Statutory Reports to verify that ventilation readings are being undertaken at least once each working shift and records are maintained of the velocity, quantity and gas concentrations.	Quarterly	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
134	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015236	Dilution through ventilation	CA.GRV.CCM.32.2.3	Verify that Statutory Inspections include a review of the status of the ventilation system.	Quarterly	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
135	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015236	Dilution through ventilation	CA.GRV.CCM.32.2.4	Verify that copies of the Ventilation Officers Monthly Ventilation Systems Report is distributed to all of the relevant personnel.	Quarterly	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
136	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015178	Flameproof Equipment and Control of Portable Electrical Equipment Underground	CA.GRV.CCM.33.2.1	Perform an in-field audit of a person using Portable Electrical Equipment underground. Confirm the following: The person using the equipment has the correct UPEE competency and has been authorized to use Portable Electrical Equipment underground / Procedure was correctly followed prior to bringing equipment underground / The UPEE register was completed / Equipment is fitted with the correct sticker and/or protective case	Bi-Annually	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
137	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015178	Flameproof Equipment and Control of Portable Electrical Equipment Underground	CA.GRV.CCM.33.2.2	Equipment is not damaged / Equipment is being transported in a way that minimizes the risk of damage / No spare batteries are being carried / Batteries are not being changed or charged underground / A working gas monitor is in use with the equipment	Bi-Annually	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
138	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015178	Flameproof Equipment and Control of Portable Electrical Equipment Underground	CA.GRV.CCM.33.2.3	The ERZC in charge of the area in which the equipment is operating has been notified of its presence, and gas testing has taken place. Ensure the person is carrying the appropriate authorization form with them	Bi-Annually	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
139	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015178	Flameproof Equipment and Control of Portable Electrical Equipment Underground	CA.GRV.CCM.33.2.4	During the audit, interview the person carrying the Portable Equipment underground to challenge test their knowledge and understanding of the procedures for the use of Portable Electrical Equipment underground.	Bi-Annually	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
140	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015178	Flameproof Equipment and Control of Portable Electrical Equipment Underground	CA.GRV.CCM.33.2.5	Ensure they are aware of the requirements for: / Equipment condition / Sign-in and sign-out / Approval of individual items of equipment for use underground / Inspections to be completed by electricians prior to use / Use of the gas monitor and actions to take in the event of an alarm or a monitor failure	Bi-Annually	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
141	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015178	Flameproof Equipment and Control of Portable Electrical Equipment Underground	CA.GRV.CCM.33.2.6	Upon returning to the surface, check the portable equipment register has been completed correctly, and that the equipment audited has been previously approved for use underground.	Bi-Annually	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
142	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015178	Flameproof Equipment and Control of Portable Electrical Equipment Underground	CA.GRV.CCM.33.2.7	Upon returning to the surface, check the training records of the person audited to confirm they have the correct UPEE competency and authorization.	Bi-Annually	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
143	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015178	Flameproof Equipment and Control of Portable Electrical Equipment Underground	CA.GRV.CCM.33.2.8	Review the Underground Portable Equipment register. Check that all entries have been appropriately countersigned by an appointed electrician. Check that all pieces of equipment have been signed out upon removal from the mine. Check the list of equipment being taken underground and identify any equipment that may not be appropriately approved.	Bi-Annually	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
144	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015178	Flameproof Equipment and Control of Portable Electrical Equipment Underground	CA.GRV.CCM.33.2.9	Flameproof Equipment - Investigate the maintenance records system to identify the completion rate for periodic maintenance on flameproof equipment underground. Ensure that minimum completion rates are being achieved, and look for any trends that require attention.	Bi-Annually	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
145	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015178	Flameproof Equipment and Control of Portable Electrical Equipment Underground	CA.GRV.CCM.33.2.10	Select two maintenance sheets for different pieces of flameproof equipment underground. Audit the sheets to confirm they contain adequate information on the maintenance and checking of flame paths and other key flameproof components.	Bi-Annually	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
146	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015178	Flameproof Equipment and Control of Portable Electrical Equipment Underground	CA.GRV.CCM.33.2.11	Perform an in-field observation (underground) of an electrician performing maintenance on flameproof equipment. Confirm by observation and discussion that the treatment and maintenance of the equipment and the flame paths is to the required procedures and standards. Check for: Correct isolation and testing-for-dead / Protection of flame path surfaces from damage	Bi-Annually	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
147	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015178	Flameproof Equipment and Control of Portable Electrical Equipment Underground	CA.GRV.CCM.33.2.12	Check for: Correct reassembly / Testing of flame path openings / Correct reporting / Gas testing (if required)	Bi-Annually	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
148	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015178	Flameproof Equipment and Control of Portable Electrical Equipment Underground	CA.GRV.CCM.33.2.13	Perform an in-field observation of an electrician performing introduction to site checks on a piece of underground electrical equipment. Confirm by observation and discussion that the checks related to flame proofing are being carried out thoroughly and accurately.	Bi-Annually	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
149	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015178	Flameproof Equipment and Control of Portable Electrical Equipment Underground	CA.GRV.CCM.33.2.14	Ensure that "Introduction to Site" checklists are being completed thoroughly and that all flame paths are identified and checked. Check for: Person's knowledge of the introduction to site procedures / Protection of flame path surfaces from damage / Correct reassembly / Testing of flame path openings / Correct reporting and recording of equipment information	Bi-Annually	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
150	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015178	Flameproof Equipment and Control of Portable Electrical Equipment Underground	CA.GRV.CCM.33.2.15	Challenge test an underground electrician on their knowledge and understanding of the UPEE procedures. Ensure they are aware of their responsibilities and the standards required for equipment being taken underground.	Bi-Annually	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
151	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015178	Flameproof Equipment and Control of Portable Electrical Equipment Underground	CA.GRV.CCM.33.2.17	random inspections of equipment for compliance to GRO-064-SOP requirements	Bi-Annually	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
152	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015178	Flameproof Equipment and Control of Portable Electrical Equipment Underground	CA.GRV.CCM.33.2.16	Challenge test an underground electrician on their knowledge of: flameproof equipment requirements / the correct methods for checking/testing flame paths / what constitutes a failure of a maintenance check / the actions to be taken if flameproof equipment fails maintenance checks	Bi-Annually	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
153	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015171	Cable management plan	CA.GRV.CCM.34.2.1	Verify each development section has a Section Cable Management Plan that deals with all cable management issues and risks. The Section Cable Management Plan will cover the following minimum requirements: / location of machines and electrical equipment / cable routes / cable hanging detail / location of designated cable storage areas / anchor points / slack / spare cable storage areas / cable protection and identification markers / back-spooling	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
154	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015171	Cable management plan	CA.GRV.CCM.34.2.2	Site Verification Activities (audit a different Development section each six months) and verify that: / All reeling, trailing, feeder and 11kV reticulation cables are used in accordance with the following rules: / Cables are fitted both ends with a permanent identification tag. / Cables are positioned so that vehicles will not run over them.	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]

155	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015171	Cable management plan	CA.GRV.CCM.34.2.3	All reeling, trailing, feeder and 11kV reticulation cables will be suspended off the ground. Exceptions to this requirement apply to: / excess lengths of reeling, trailing & feeder cables that may be neatly stored on the ground in a figure-8 form protected from damage and clearly identified by pogo sticks or other acceptable indication markers	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
156	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015171	Cable management plan	CA.GRV.CCM.34.2.4	Reeling cable sections that reel on and off cable reels / cables identified in the Section Cable Management Plans with special circumstances and requirements.	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
157	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015171	Cable management plan	CA.GRV.CCM.34.2.5	All disconnected cables are fitted with blanking plates or capped or bagged to protect and maintain the cleanliness of the plugs.	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
158	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015171	Cable management plan	CA.GRV.CCM.34.2.6	5. The equipment will be free of any protrusions (sharp edges, nails etc.) that may damage the cables during transport or storage.	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
159	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015171	Cable management plan	CA.GRV.CCM.34.2.7	6. All defective cables are isolated, fitted with an 'Out of Service' tag, and removed from the mine to the designated area for faulty cables.	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
160	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015171	Cable management plan	CA.GRV.CCM.34.2.8	Review designated cable storage areas (typically cut-throughs) to ensure areas are: / dry, cleaned of all loose materials and graded from rib to rib / barricaded and identified with appropriate signage / Not used for any other purpose including storage of faulty or unserviceable cables / Have available a fully stocked tag box	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
161	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015171	Cable management plan	CA.GRV.CCM.34.2.9	Ensure cables stored in the area: / are stored on reels or on the ground in figure-8 form / do not have cable plugs contacting the ground / dust caps and blanking plates and/or plastic bags are fitted to plug ends	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
162	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015171	Cable management plan	CA.GRV.CCM.34.2.10	Ensure that: / when on a reel, plugs are secured in 2 places to the reel using rope or other means / at least one cable identification tag is visible on each cable / cable reels may be hung from the roof to allow easier recovery onto the cable reeler	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
163	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015171	Cable management plan	CA.GRV.CCM.34.2.11	Installation of 11V Reticulation Cables: / Ensure that Chains are not to be used to support 11kV reticulation cables or plugs. / Cables are hung to the roof using cable straps at every second roof strap. / Cable hung as close to the rib line as possible. / Plugs are supported by rope and where possible the cable ends are diverted slightly into cut throughs so that the plug is not in the main roadway.	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
164	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015171	Cable management plan	CA.GRV.CCM.34.2.12	Installation of 11V Reticulation Cables: Ensure that cables are hung on the opposite side of the roadway to pipes and communications services. Cables are generally on the right hand side of the heading, looking inbye (where possible).	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
165	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015171	Cable management plan	CA.GRV.CCM.34.2.13	Where cables cross an intersection or from one side of the roadway to the other, they are kept as close to the roof as possible and mechanically protected where required. / Cables adjacent to plugs are supported so as to prevent damage to the back of the plug.	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
166	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015171	Cable management plan	CA.GRV.CCM.34.2.14	Installation of 11V Reticulation Cables: / Ensure that Spare/slack cable is hung in the cut-through behind the isolator/transformer. / Bends have a radius of approx. 800mm. / All plugs are fitted with purpose made, indelibly marked identification tags that identify the feeder and the point of supply.	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
167	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015171	Cable management plan	CA.GRV.CCM.34.2.15	If for any reason an 11kV reticulation cable has to be run across or under conveyor structure, it is mechanically protected. / Earth straps are fitted across all cable coupling devices.	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
168	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015171	Cable management plan	CA.GRV.CCM.34.2.16	Feeder Cables and Other Fixed Cables / Ensure that Cables are hung to the roof using rope or hangers at approximately 2 m intervals from the point of supply to a point above the load connection point. / Adequate slack cable is left at the load to ensure no strain is put on the connection point.	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
169	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015171	Cable management plan	CA.GRV.CCM.34.2.17	Slack/spare cable is stored on the floor at an appropriate point in figure-8 form near the rib or tied to the rib. / Pogo sticks or similar devices with reflective tape are used to clearly identify any cable if on the ground.	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
170	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015171	Cable management plan	CA.GRV.CCM.34.2.18	Feeder Cables and Other Fixed Cables / Ensure that Cables will normally be hung on the opposite side of the roadway to pipes if they exist. / Any cable couplers are hung off the floor and clear of water sources. / Cables are hung close to the roof around corners of pillars where damage is most likely to occur.	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
171	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015171	Cable management plan	CA.GRV.CCM.34.2.19	Where cables cross conveyor structures they are suitably protected. / Where there is insufficient clearance or there is an identifiable risk, the cable has pogo sticks with reflective tape or other identification devices installed along that length that is of insufficient clearance	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
172	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015171	Cable management plan	CA.GRV.CCM.34.2.20	Continuous Miner Cables / Ensure that Cables are hung to the roof using rope or hangers at approximately 2 m intervals from the point of supply to an appropriate point for storing the slack/spare cable. / Slack/spare cable is stored on the floor at an appropriate point in figure-8 form near the rib or tied to the rib.	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
173	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015171	Cable management plan	CA.GRV.CCM.34.2.21	Pogo sticks with reflective tape or other identification devices are used to clearly identify the cable if on the ground. / Any cable couplers are kept outbye of this slack cable storage area and hung off the floor and clear of water sources.	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
174	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015171	Cable management plan	CA.GRV.CCM.34.2.22	Continuous Miner Cables / Ensure that Cables are hung close to the roof around corners of pillars where damage is most likely to occur. / The remaining cable to the machine is supported on cable rollers spaced at a maximum of 6 m apart, up to within 8 m of the machine. i.e. on rollers, suspended from the roof or from the rib.	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
175	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015171	Cable management plan	CA.GRV.CCM.34.2.23	The machine operator or cable hand ensures that there is adequate slack cable at the machine. / A webbing strap or other purpose-built device is used to secure the cable to the machine so that there is no strain on the cable plug.	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
176	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015171	Cable management plan	CA.GRV.CCM.34.2.24	Breaker Feeder Cables / Ensure that Cables are hung to the roof using rope or hangers at approximately 2 m intervals from the point of supply to a point above the machine connection point. / Adequate slack cable is left at the machine to ensure no strain is put on the connection point.	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
177	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015171	Cable management plan	CA.GRV.CCM.34.2.25	Slack/spare cable is stored on the floor at an appropriate point in figure-8 form near the rib or tied to the rib. / Cables are hung close to the roof around corners of pillars where damage is most likely to occur.	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
178	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015171	Cable management plan	CA.GRV.CCM.34.2.26	Location of anchor points will ensure: / The machine will reach the working face, i.e. care will be taken to ensure cable length and reeler storage capacities are not exceeded.	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
179	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015171	Cable management plan	CA.GRV.CCM.34.2.27	A minimal need for a machine to wheel alongside the other machine's cable. / The machine will shunt without risk to its own cable or the other machine's cable. / The anchor point is located off the wheeling road to minimise the load and friction on the cable. / Regular adjustment of the cable through the anchor point to reduce the effect of fatigue on any one section of cable.	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
180	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015171	Cable management plan	CA.GRV.CCM.34.2.28	Shuttle Car and Bolter Cables / Ensure that Cables are hung to the roof using rope or hangers at approximately 2 m intervals from the point of supply to the anchor point. / Spare reeling cable is stored in an appropriate place near the anchor point in figure-8 form near the rib or tied to the rib.	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
181	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015171	Cable management plan	CA.GRV.CCM.34.2.29	Pogo sticks with reflective tape or other identification devices are used to clearly identify the cable if on the ground. / If an extension cable is used the slack/spare cable is stored on the floor at an appropriate point in figure-8 form near the rib or tied to the rib.	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
182	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015171	Cable management plan	CA.GRV.CCM.34.2.30	Rubber belting is installed to prevent cable damage from abrasion or from contact with rib bolts. Belting is installed on each wheeling corner where cable contact with the rib is possible. Cables are hung close to the roof around corners of pillars where damage is most likely not to occur. Care is taken not to stretch a cable when pulling it round a corner.	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
183	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015171	Cable management plan	CA.GRV.CCM.34.2.31	During the underground panel inspection challenge test the ERZ controller and panel electrician on their knowledge and understanding of cable management standards – both general standards and those applicable to their current work area. Provide feedback on the results of the audit above.	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
184	Failure of the gas monitoring system	TE 0000269	Failure of the Gas Monitoring System	CT.00015740	Warning Alarms in CITEC once pre-defined Time limit that a sensor has remained in By-Pass is exceeded	CA.GRV.CCM.35.2.1	Complete and audit of 3 sample points to verify that warning alarms in Citec are taken off of By Pass once calibration / maintenance actions have been completed	Bi-Annually	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
185	Failure of the gas monitoring system	TE 0000269	Failure of the Gas Monitoring System	CT.00015737	Fail-To-Safe design (NERZ/ERZ Boundary Monitoring)	CA.GRV.CCM.36.2.1	Verify a different process area each quarter (e.g. 1st check of year - Outbye, 2nd Check of year - Development, 3rd Check of year - Longwall, 4th Check of year - Surface/Main Fan). / Verify that previous 3 x monthly gas calibration / automatic trip testing has been conducted for Surface and Outbye Areas (including main fan).	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
186	Failure of the gas monitoring system	TE 0000269	Failure of the Gas Monitoring System	CT.00015737	Fail-To-Safe design (NERZ/ERZ Boundary Monitoring)	CA.GRV.CCM.36.2.2	Verify gas calibration and auto power trips on Continuous Miner, Auxiliary Fan and NERZ/ERZ Boundary monitors have been conducted for previous 3 months (Ellipse). Review a sample of completed work orders to ensure adequacy of completion.	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]

187	Failure of the gas monitoring system	TE 00000269	Failure of the Gas Monitoring System	CT.00015737	Fail-To-Safe design (NERZ/ERZ Boundary Monitoring)	CA.GRV.CCM.36.2.3	Verify gas calibration and auto power trips on Shearer, Tailgate and Maingate Drives and NERZ/ERZ Boundary monitors have been conducted for previous 3 months (Ellipse). Review a sample of completed work orders to ensure adequacy of completion.	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
188	Failure of the gas monitoring system	TE 00000269	Failure of the Gas Monitoring System	CT.00015737	Fail-To-Safe design (NERZ/ERZ Boundary Monitoring)	CA.GRV.CCM.36.2.4	Physical inspection to verify that equipment is suitably rated to area in which it is located.	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
189	Failure of the gas monitoring system	TE 00000269	Failure of the Gas Monitoring System	CT.00015737	Fail-To-Safe design (NERZ/ERZ Boundary Monitoring)	CA.GRV.CCM.36.2.5	Verify that a NATA certified calibration (6 monthly) has been undertaken for a sample of boundary monitors.	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
190	Failure of the gas monitoring system	TE 00000269	Failure of the Gas Monitoring System	CT.00015737	Fail-To-Safe design (NERZ/ERZ Boundary Monitoring)	CA.GRV.CCM.36.2.6	Verify that monthly calibrations have occurred on site for the previous 3 months for the area being inspected.	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
191	Failure of the gas monitoring system	TE 00000269	Failure of the Gas Monitoring System	CT.00015738	Monthly calibration checks	CA.GRV.CCM.37.2.1	Confirm that the current gas alarms are displayed or available in the control room, and any other places required. These alarms are contained in the Pre-set Alarm Trigger Values Log.	Bi-Annually	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
192	Failure of the gas monitoring system	TE 00000269	Failure of the Gas Monitoring System	CT.00015738	Monthly calibration checks	CA.GRV.CCM.37.2.2	Randomly select three gas monitoring points. Check the monitoring and alarm system, and confirm that the alarm set points match the approved gas alarm list. Check that the alarm set points for these three points are in line with the requirements for the underground locations.	Bi-Annually	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
193	Failure of the gas monitoring system	TE 00000269	Failure of the Gas Monitoring System	CT.00015738	Monthly calibration checks	CA.GRV.CCM.37.2.3	Review the work order system and confirm that the correct periodic checks of the alarm system have been completed. Confirm that calibrations on underground gas monitoring heads were completed. Review the gas alarm log for the shift that the calibration or alarm testing was completed, and confirm that the alarms were recorded correctly.	Bi-Annually	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
194	Failure of the gas monitoring system	TE 00000269	Failure of the Gas Monitoring System	CT.00015738	Monthly calibration checks	CA.GRV.CCM.37.2.4	Confirm that the Pre-set Alarm Trigger Values Log is being correctly updated following ventilation changes and monthly ventilation surveys. Confirm that all changes are approved in this log by the Ventilation Officer and Mine Manager.	Bi-Annually	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
195	Failure of the gas monitoring system	TE 00000269	Failure of the Gas Monitoring System	CT.00015743	Priority Critical Control - ERZ-NERZ Boundary Installation Standards - audit of the UG workings for all new or changed installations.	CA.GRV.CCM.38.2.1	Verify that all gas monitoring infrastructure and equipment identified on the plan issued by the VO is in situ and operational including: / That monitoring heads are located in the correct position in the heading, and exposed to the air stream. / Verify that a NATA certified calibration (6 monthly) has been undertaken on relevant gas monitoring infrastructure	Monthly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
196	Failure of the gas monitoring system	TE 00000269	Failure of the Gas Monitoring System	CT.00015743	Priority Critical Control - ERZ-NERZ Boundary Installation Standards - audit of the UG workings for all new or changed installations.	CA.GRV.CCM.38.2.2	Verify that equipment is suitably rated to the area in which it is located. / Verify that monthly calibrations have occurred on site for the previous 3 months	Monthly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
197	Failure of the gas monitoring system	TE 00000269	Failure of the Gas Monitoring System	CT.00015743	Priority Critical Control - ERZ-NERZ Boundary Installation Standards - audit of the UG workings for all new or changed installations.	CA.GRV.CCM.38.2.4	Inspect electrical equipment installed in stubs or cut-throughs is positively ventilated to ensure there is no accumulation of flammable gas around the installation	Monthly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
198	Failure of the gas monitoring system	TE 00000269	Failure of the Gas Monitoring System	CT.00015743	Priority Critical Control - ERZ-NERZ Boundary Installation Standards - audit of the UG workings for all new or changed installations.	CA.GRV.CCM.38.2.3	Provide a report to the TSM on any non-compliances identified	Monthly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
199	Failure of the gas monitoring system	TE 00000269	Failure of the Gas Monitoring System	CT.00015744	Priority Critical Control - ERZ-NERZ Boundary Installation Standards - Review the Gas Monitoring quality assurance report completed by the EEM.	CA.GRV.CCM.39.2.1	Review the Gas Monitoring quality assurance report completed by the EEM. Compare this report against the installation, commissioning and sign off sheets completed for new gas monitoring installations in the previous month. / Identify if there are any discrepancies between the EEM report and installation sign off sheets for newly located gas monitors.	Monthly	Niehaus Wouter - [REDACTED]	Mohr Logan [REDACTED]
200	Failure of the gas monitoring system	TE 00000269	Failure of the Gas Monitoring System	CT.00015744	Priority Critical Control - ERZ-NERZ Boundary Installation Standards - Review the Gas Monitoring quality assurance report completed by the EEM.	CA.GRV.CCM.39.2.2	For areas where there are inconsistencies in this documentation inspect the area with both the EEM and VO to validate actual status and record according to findings. Consult with the UMM to determine appropriate corrective actions for differences in the reports. For non compliances ensure a High Potential Hazard report is raised and remedial actions have implemented to address any non-compliances	Monthly	Niehaus Wouter - [REDACTED]	Mohr Logan [REDACTED]
201	Failure of the gas monitoring system	TE 00000269	Failure of the Gas Monitoring System	CT.00015739	Priority Critical Control - ERZ-NERZ Boundary Installation Standards - Validate that the assurance process for gas monitoring installations is in place and effective.	CA.GRV.CCM.40.2.1	Validate that the assurance process for gas monitoring installations is in place and effective. Review the last 6 months Gas Monitoring Assurance Reports completed by the TSM to verify the following: / Verify that the EEM's inspection and report has been completed independently from the commissioning and sign off sheets.	Bi-Annually	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
202	Failure of the gas monitoring system	TE 00000269	Failure of the Gas Monitoring System	CT.00015739	Priority Critical Control - ERZ-NERZ Boundary Installation Standards - Validate that the assurance process for gas monitoring installations is in place and effective.	CA.GRV.CCM.40.2.2	Validate that any differences in the reports have been inspected by the TSM, EEM and VO and discrepancies rectified. / Verify that any non-compliances have remedial actions assigned	Bi-Annually	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
203	Failure of the gas monitoring system	TE 00000269	Failure of the Gas Monitoring System	CT.00015741	All tubes fitted with self-draining water traps at seal sites; All tubes fitted with end-of-line dust filters	CA.GRV.CCM.41.2.1	Perform an underground audit of real time and tube-bundle gas monitoring installations. Visit a minimum of three real time gas monitoring points (select different points / areas each 6 monthly period). Audit the gas monitoring points for compliance with standards. Complete the following checks at each location:	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
204	Failure of the gas monitoring system	TE 00000269	Failure of the Gas Monitoring System	CT.00015741	All tubes fitted with self-draining water traps at seal sites; All tubes fitted with end-of-line dust filters	CA.GRV.CCM.41.2.2	That monitoring heads are located in the position, and exposed to the air stream.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
205	Failure of the gas monitoring system	TE 00000269	Failure of the Gas Monitoring System	CT.00015741	All tubes fitted with self-draining water traps at seal sites; All tubes fitted with end-of-line dust filters	CA.GRV.CCM.41.2.3	That the monitoring head has appropriate suction and correct end of line hardware.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
206	Failure of the gas monitoring system	TE 00000269	Failure of the Gas Monitoring System	CT.00015741	All tubes fitted with self-draining water traps at seal sites; All tubes fitted with end-of-line dust filters	CA.GRV.CCM.41.2.4	Cross-check reading on monitoring head with a portable gas monitor, and check calibration records.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
207	Failure of the gas monitoring system	TE 00000269	Failure of the Gas Monitoring System	CT.00015741	All tubes fitted with self-draining water traps at seal sites; All tubes fitted with end-of-line dust filters	CA.GRV.CCM.41.2.5	Check surface gas monitoring system. For each of the gas monitoring points audited in the above checks (both real time and tube bundle) confirm: / That the real time gas monitors are functioning correctly and displaying on the surface. / That the tube bundle readings are displaying on the surface.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
208	Failure of the gas monitoring system	TE 00000269	Failure of the Gas Monitoring System	CT.00015741	All tubes fitted with self-draining water traps at seal sites; All tubes fitted with end-of-line dust filters	CA.GRV.CCM.41.2.6	3. While performing inspection/audit of underground gas monitoring points, discuss with an ERZ controlled his understanding and knowledge of gas monitoring point installation standards and requirements.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
209	Failure of the gas monitoring system	TE 00000269	Failure of the Gas Monitoring System	CT.00015741	All tubes fitted with self-draining water traps at seal sites; All tubes fitted with end-of-line dust filters	CA.GRV.CCM.41.2.7	4. Confirm completion of the most recent monthly tube bundle line integrity test. Confirm the test was completed and correctly reported, and that the test was conducted by an appropriately trained and authorised person.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
210	Failure of the gas monitoring system	TE 00000269	Failure of the Gas Monitoring System	CT.00015742	Fail-To-Safe design (mobile plant)	CA.GRV.CCM.42.2.1	1. Perform an in-field audit of three pieces of mobile plant. Check that on-board gas monitoring equipment is in service, working, and that calibration is current. Observe condition of monitoring head and output screens.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
211	Failure of the gas monitoring system	TE 00000269	Failure of the Gas Monitoring System	CT.00015742	Fail-To-Safe design (mobile plant)	CA.GRV.CCM.42.2.2	2. Review the work order system and determine the percentage completion of the periodic calibrations on mobile equipment gas monitoring. Ensure that all equipment is being checked and calibrated as required, and that no equipment is being consistently missed by the periodic maintenance checks.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
212	Failure of the gas monitoring system	TE 00000269	Failure of the Gas Monitoring System	CT.00015742	Fail-To-Safe design (mobile plant)	CA.GRV.CCM.42.2.3	3. Search the mine incident and hazard database for incidents related to failures, non-compliances, faults, damage or other issues with gas monitoring equipment on mobile plant. Look for trends in the data in order to identify any actions which may need to be taken to improve the availability and reliability of equipment. Search for any monitoring equipment that has been out of service for an extended time, and investigate the cause.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
213	Failure of the gas monitoring system	TE 00000269	Failure of the Gas Monitoring System	CT.00015742	Fail-To-Safe design (mobile plant)	CA.GRV.CCM.42.2.4	4. Perform an in-field observation of a piece of mobile equipment being tested during its periodic maintenance. Observe the calibration checks and automatic shutdown checks being completed on this machine. Confirm that the checks are being conducted and recorded correctly.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
214	Failure of the gas monitoring system	TE 00000269	Failure of the Gas Monitoring System	CT.00015742	Fail-To-Safe design (mobile plant)	CA.GRV.CCM.42.2.5	5. Randomly select a piece of mobile equipment, and have the automatic shutdown mechanism checked on this machine in the field. Confirm that the shutdown system related to the gas monitoring system works as planned.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
215	Ingress into Underground Workings	TE 00000251	Inrush	CT.00017432	Surface drainage network drains away from portals and shafts	CA.GRV.CCM.43.2.1	Verify that reports from water management consultants / specialists have been undertaken that indicate that dam water storage overflow will release water into the surface drainage system away from mine entries and portals.	Annual	Bachmann Kate - [REDACTED]	Heap Adam - [REDACTED]
216	Ingress into Underground Workings	TE 00000251	Inrush	CT.00017432	Surface drainage network drains away from portals and shafts	CA.GRV.CCM.43.2.2	Verify that reports from water management consultants / specialists have been undertaken that surface gradients will deliver flood water into the surface drainage system away from mine entries and portals.	Annual	Bachmann Kate - [REDACTED]	Heap Adam - [REDACTED]
217	Ingress into Underground Workings	TE 00000251	Inrush	CT.00017432	Surface drainage network drains away from portals and shafts	CA.GRV.CCM.43.2.3	Verify that the surface gradients are being maintained to ensure that flood water will be delivered into the surface drainage system (i.e. physically verify that drainage isn't blocked, hasn't been filled, etc.).	Annual	Bachmann Kate - [REDACTED]	Heap Adam - [REDACTED]
218	Ingress into Underground Workings	TE 00000251	Inrush	CT.00017432	Surface drainage network drains away from portals and shafts	CA.GRV.CCM.43.2.6	Verify that any defects that have been identified during the surface drainage inspections have been completed / rectified or are in the process of being actioned.	Annual	Bachmann Kate - [REDACTED]	Heap Adam - [REDACTED]
219	Ingress into Underground Workings	TE 00000251	Inrush	CT.00017442	Permit to Mine	CA.GRV.CCM.44.2.2	Verify that the relevant documents are reviewed, and the contents are considered, before a Permit to Mine is approved, e.g. Existing Authority to Mine, Geological and Geotechnical Hazard Plans, Gas Drainage and Bore Hole Location Plans, Inrush Hazard Plans and the Borehole History Log and Grouting Status.	Quarterly	Niehaus Wouter - [REDACTED]	Brown, David - [REDACTED]
220	Ingress into Underground Workings	TE 00000251	Inrush	CT.00017442	Permit to Mine	CA.GRV.CCM.44.2.3	Review the mining sequence plans to verify that any new areas that are about to be mined are clearly identified	Quarterly	Niehaus Wouter - [REDACTED]	Brown, David - [REDACTED]
221	Ingress into Underground Workings	TE 00000251	Inrush	CT.00017442	Permit to Mine	CA.GRV.CCM.44.2.4	Verify that up-to-date survey data is considered in the development of the Permit to Mine.	Quarterly	Niehaus Wouter - [REDACTED]	Brown, David - [REDACTED]
222	Ingress into Underground Workings	TE 00000251	Inrush	CT.00017442	Permit to Mine	CA.GRV.CCM.44.2.6	Verify that the permits were prepared in accordance with GRO-3385-HMP-Permit to Mine	Quarterly	Niehaus Wouter - [REDACTED]	Brown, David - [REDACTED]
223	Ingress into Underground Workings	TE 00000251	Inrush	CT.00017449	Dewatering of shaft prior to holing into existing workings	CA.GRV.CCM.45.2.1	Verify that a formal process is implemented to ensure that all shafts are tested for water / mud level prior to holing from underground.	Bi-Annually	Niehaus Wouter - [REDACTED]	Mohr Logan [REDACTED]

224	Ingress into Underground Workings	TE 0000251	Inrush	CT.00017449	Dewatering of shaft prior to holing into existing workings	CA.GRV.CCM.45.2.2	Verify that where the water / mud level test indicated a potential inrush level, the formal process to pump water and mud from the shaft to eliminate the inrush potential prior to holing from underground was completed	Bi-Annually	Niehaus Wouter - [REDACTED]	Mohr Logan [REDACTED]
225	Ingress into Underground Workings	TE 0000251	Inrush	CT.00017449	Dewatering of shaft prior to holing into existing workings	CA.GRV.CCM.45.2.3	Review the shift and / or inspection reports to verify that, prior to holing, water / mud levels from shaft tests and corresponding actions taken or required to be taken were completed prior to holing.	Bi-Annually	Niehaus Wouter - [REDACTED]	Mohr Logan [REDACTED]
226	Ingress into Underground Workings	TE 0000251	Inrush	CT.00017474	Surface borehole D and grouting - Grout any non-grouted boreholes	CA.GRV.CCM.46.2.1	Review the survey plan and verify that all known surface boreholes have been recorded on the plan (refer to Borehole History Logs to cross-check).	Quarterly	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
227	Ingress into Underground Workings	TE 0000251	Inrush	CT.00017474	Surface borehole D and grouting - Grout any non-grouted boreholes	CA.GRV.CCM.46.2.2	Review the survey plan and verify that all known underground gas drainage boreholes have been recorded on the plan (refer to Borehole History Logs to cross-check).	Quarterly	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
228	Ingress into Underground Workings	TE 0000251	Inrush	CT.00017474	Surface borehole D and grouting - Grout any non-grouted boreholes	CA.GRV.CCM.46.2.3	Ensure that Acquire database export show the correct grouting status of boreholes located on the permit to mine	Quarterly	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
229	Ingress into Underground Workings	TE 0000251	Inrush	CT.00017474	Surface borehole D and grouting - Grout any non-grouted boreholes	CA.GRV.CCM.46.2.4	Inspect a representative sample of completed boreholes (where accessible) to verify that the locations indicated on the Survey Plans match the physical locations of the boreholes.	Quarterly	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
230	Ingress into Underground Workings	TE 0000251	Inrush	CT.00017474	Surface borehole D and grouting - Grout any non-grouted boreholes	CA.GRV.CCM.46.2.5	Verify that accurate data has been entered into the Acquire database for grouting status. - Take a current copy of a Permit to Mine and validate that the data in Acquire borehole location and grouting status is the same as the Permit to Mine.	Quarterly	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
231	Ingress into Underground Workings	TE 0000251	Inrush	CT.00017461	Grout any non-grouted Seamgas holes	CA.GRV.CCM.47.2.1	Review the survey plan and verify that all known underground gas drainage boreholes have been recorded on the plan (refer to Borehole History Logs to cross-check).	Quarterly	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
232	Ingress into Underground Workings	TE 0000251	Inrush	CT.00017461	Grout any non-grouted Seamgas holes	CA.GRV.CCM.47.2.2	Ensure that Acquire database export show the correct grouting status of boreholes located on the permit to mine	Quarterly	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
233	Ingress into Underground Workings	TE 0000251	Inrush	CT.00017461	Grout any non-grouted Seamgas holes	CA.GRV.CCM.47.2.3	Inspect a representative sample of completed boreholes (where accessible) to verify that the locations indicated on the Survey Plans match the physical locations of the boreholes.	Quarterly	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
234	Ingress into Underground Workings	TE 0000251	Inrush	CT.00017461	Grout any non-grouted Seamgas holes	CA.GRV.CCM.47.2.4	Verify that accurate data has been entered into the Acquire database for grouting status. - Take a current copy of a Permit to Mine and validate that the data in Acquire borehole location and grouting status is the same as the Permit to Mine.	Quarterly	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
235	Failure of the methane drainage system	TE 0000268	Failure of the methane drainage system	CT.00015875	Borehole intersection notices completed	CA.GRV.CCM.48.2.1	Review a sample borehole intersection notices provided to development or longwall and ensure they address all hazards (water head, gas pressure, gas flows etc.)	Quarterly	Niehaus Wouter - [REDACTED]	Kostowski Raymond - [REDACTED]
236	Failure of the methane drainage system	TE 0000268	Failure of the methane drainage system	CT.00015875	Borehole intersection notices completed	CA.GRV.CCM.48.2.2	Review the hazard, defect and incident reporting system (Enablon) across each of the UG operations and verify if any significant incidents relating to this control have failed in the previous quarter. Ensure that: Learnings and actions from the incident have been reviewed at Grosvenor Mine / Any significant actions from these incidents have triggered the relevant document review	Quarterly	Niehaus Wouter - [REDACTED]	Kostowski Raymond - [REDACTED]
237	Failure of the methane drainage system	TE 0000268	Failure of the methane drainage system	CT.00015873	Fit for purpose flame arrestors	CA.GRV.CCM.49.2.1	Perform an in-field audit of an installation that has been installed within the previous six (6) months. Validate correctly rated Flame Arrestor is installed as designed, and to standard.	Quarterly	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
238	Failure of the methane drainage system	TE 0000268	Failure of the methane drainage system	CT.00015873	Fit for purpose flame arrestors	CA.GRV.CCM.49.2.2	Check Detonation / Flame Arrestor: / Ensure bolts are tight and are installed. / Check to ensure correct gas flow through the Detonation / Flame Arrestor (see arrow on side or on top of device). / Check tap on side of device to ensure working effectively. / Ensure drain plug on the underside of the detonation / flame arrestor is in place and tight. / Check gaskets are in place and correctly installed (no pinching).	Quarterly	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
239	Failure of the methane drainage system	TE 0000268	Failure of the methane drainage system	CT.00015873	Fit for purpose flame arrestors	CA.GRV.CCM.49.2.3	Select a goaf drainage surface installation which was commissioned during the previous six (6) months. / Find the commissioning check sheet for this installation / Confirm that the commissioning sheet was completed thoroughly and completely and signed off.	Quarterly	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
240	Failure of the methane drainage system	TE 0000268	Failure of the methane drainage system	CT.00015873	Fit for purpose flame arrestors	CA.GRV.CCM.49.2.4	Review the work order system for the previous six (6) months to check that all commissioning sheets have been completed as required.	Quarterly	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
241	Failure of the methane drainage system	TE 0000268	Failure of the methane drainage system	CT.00015874	Gas composition monitoring	CA.GRV.CCM.50.2.1	Check that all gas cylinders being used to for calibrations are "in date"	Monthly	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
242	Failure of the methane drainage system	TE 0000268	Failure of the methane drainage system	CT.00015874	Gas composition monitoring	CA.GRV.CCM.50.2.2	Check that gas calibrations are being conducted as per required frequency and sight documentation showing calibration was conducted	Monthly	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
243	Failure of the methane drainage system	TE 0000268	Failure of the methane drainage system	CT.00015874	Gas composition monitoring	CA.GRV.CCM.50.2.3	Check all alarm set points are set to TARP levels	Monthly	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
244	Failure of the methane drainage system	TE 0000268	Failure of the methane drainage system	CT.00015876	Gas Drainage Design and Planning	CA.GRV.CCM.51.2.1	Validate that current mine schedules and forecasts include consideration of Gas Reservoirs and Gas Drainage design parameters. Confirm that historical gas drainage data has been used when establishing mining sequences.	Annual	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
245	Failure of the methane drainage system	TE 0000268	Failure of the methane drainage system	CT.00015876	Gas Drainage Design and Planning	CA.GRV.CCM.51.2.2	Validate that current gas drainage plan and schedule is sufficient to meet development forecast advance.	Annual	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
246	Failure of the methane drainage system	TE 0000268	Failure of the methane drainage system	CT.00015876	Gas Drainage Design and Planning	CA.GRV.CCM.51.2.3	Check that the following Key Performance Indicators and trends are being maintained and communicated regarding gas drainage performance: / Total Goaf drainage flow – total flow l/s / Total Goaf drainage flow – methane l/s / Tailgate gas flow – methane l/s	Annual	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
247	Failure of the methane drainage system	TE 0000268	Failure of the methane drainage system	CT.00015876	Gas Drainage Design and Planning	CA.GRV.CCM.51.2.4	Check that the following Key Performance Indicators and trends are being maintained and communicated regarding gas capture effectiveness (percentage of gas reporting to the goaf drainage system): / Methane reporting to atmosphere / Lost production time due to gas delays – hours per week / Time when gas levels exceed 1.8% CH4	Annual	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
248	Failure of the methane drainage system	TE 0000268	Failure of the methane drainage system	CT.00015876	Gas Drainage Design and Planning	CA.GRV.CCM.51.2.5	Review the in situ gas content of the latest model to see that it has been updated with the latest gas compliance cores.	Annual	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
249	Failure of the methane drainage system	TE 0000268	Failure of the methane drainage system	CT.00015876	Gas Drainage Design and Planning	CA.GRV.CCM.51.2.6	Confirm that gas flow database is comprehensive and up to date. To do this check information related to current gas flow data sources (both surface and underground), confirming completeness and the records.	Annual	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
250	Failure of the methane drainage system	TE 0000268	Failure of the methane drainage system	CT.00015876	Gas Drainage Design and Planning	CA.GRV.CCM.51.2.7	Confirm that database is up to date with most recent flow recording measurements (as up to date as practical). To do this, locate most recent gas flow measurement data, and confirm its entry into the database.	Annual	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
251	Failure of the methane drainage system	TE 0000268	Failure of the methane drainage system	CT.00015876	Gas Drainage Design and Planning	CA.GRV.CCM.51.2.8	Confirm that flow measurements have been completed and recorded at the required frequency. Select two sampling locations and a random month from the previous six months, and audit records to ensure all required flow sampling was completed in that month.	Annual	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
252	Failure of the methane drainage system	TE 0000268	Failure of the methane drainage system	CT.00015876	Gas Drainage Design and Planning	CA.GRV.CCM.51.2.9	Confirm that flow measurements are being accurately entered into the database. Select a sample of data from a random month from the previous six months and check that the data from each of the recording samples has been accurately entered into the database	Annual	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
253	Failure of the methane drainage system	TE 0000268	Failure of the methane drainage system	CT.00015876	Gas Drainage Design and Planning	CA.GRV.CCM.51.2.10	Check the quality of the records used as input data to the gas flow database (i.e. gas flow recording sheets). Select a sample of data from a random month from the previous six months and check: / Original records and correctly and securely stored / Quality and completeness of data recorded	Annual	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
254	Failure of the methane drainage system	TE 0000268	Failure of the methane drainage system	CT.00015876	Gas Drainage Design and Planning	CA.GRV.CCM.51.2.11	Review any external reports or audits that have been undertaken of the gas flow database in the last 6 months and confirm that all actions as a result of these reviews have been completed and are effective.	Annual	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
255	Failure of the methane drainage system	TE 0000268	Failure of the methane drainage system	CT.00015876	Gas Drainage Design and Planning	CA.GRV.CCM.51.2.12	Confirm (by sighting evidence of a report) that any internal or external reviews of the database have been completed as scheduled, and that any actions arising from these reviews have been appropriately addressed.	Annual	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
256	Failure of the methane drainage system	TE 0000268	Failure of the methane drainage system	CT.00015876	Gas Drainage Design and Planning	CA.GRV.CCM.51.2.13	Review current trends of gas flows from the database. / Check that any trigger levels have been activated if necessary.	Annual	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
257	Failure of the methane drainage system	TE 0000268	Failure of the methane drainage system	CT.00015879	Gas Flow Monitoring	CA.GRV.CCM.52.2.1	Check that gas flow measurements have been taken at the correct intervals, have complete records, and actions taken on any triggers. This can be confirmed via a report from the work order system, or through inspection of reports. Run a report for the last quarter, and check for the amount and type of measurements that have not been completed. Confirm that flow measurements have been completed and recorded at the required frequency.	Quarterly	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
258	Failure of the methane drainage system	TE 0000268	Failure of the methane drainage system	CT.00015879	Gas Flow Monitoring	CA.GRV.CCM.52.2.2	Select two sampling locations and a random month from the previous quarter, and audit records to ensure all required flow sampling was completed in that month.	Quarterly	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
259	Failure of the methane drainage system	TE 0000268	Failure of the methane drainage system	CT.00015879	Gas Flow Monitoring	CA.GRV.CCM.52.2.3	Review trends of current gas flows on all monitoring points (surface and underground). Review trends for the following over the last six months: / Total Goaf drainage flow – total flow l/s / Total Goaf drainage flow – methane l/s / Tailgate gas flow – methane l/s / Total UIS drainage flow – total flow l/s / Total UIS drainage flow – methane l/s	Quarterly	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
260	Failure of the methane drainage system	TE 0000268	Failure of the methane drainage system	CT.00015879	Gas Flow Monitoring	CA.GRV.CCM.52.2.4	Review trends gas capture effectiveness (percentage of gas reporting to the goaf drainage system) over the last six months: / Methane reporting to atmosphere / Look for anomalies or trends in individual flows and overall flows	Quarterly	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
261	Failure of the methane drainage system	TE 0000268	Failure of the methane drainage system	CT.00015879	Gas Flow Monitoring	CA.GRV.CCM.52.2.5	Check that flow monitoring devices/sensors/instruments have been calibrated and inspected as required on or before their due dates. This may be achieved through in-field inspection or via the work order / maintenance tracking system. Check condition of instruments and flow measuring apparatus.	Quarterly	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]

262	Failure of the methane drainage system	TE 00000268	Failure of the methane drainage system	CT.00015879	Gas Flow Monitoring	CA.GRV.CCM.52.2.6	Interview a person responsible for carrying out manual flow measurements (select a different person from a different shift each month). Challenge test the person's knowledge and understanding of: / Procedure for measurement / Use of the different types of instruments / Correct measuring technique / Reporting requirements / Testing intervals / Procedure for returning gas infrastructure to service	Quarterly	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
263	Failure of the methane drainage system	TE 00000268	Failure of the methane drainage system	CT.00015879	Gas Flow Monitoring	CA.GRV.CCM.52.2.7	Observe gas flow monitoring / measurement process being performed on a surface riser installation. Confirm that work is being carried out in accordance with the current procedures.	Quarterly	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
264	Failure of the methane drainage system	TE 00000268	Failure of the methane drainage system	CT.00015879	Gas Flow Monitoring	CA.GRV.CCM.52.2.8	Observe gas flow measurement being performed on an underground UIS hole. Confirm that work is being carried out in accordance with the current procedures	Quarterly	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
265	Failure of the methane drainage system	TE 00000268	Failure of the methane drainage system	CT.00015879	Gas Flow Monitoring	CA.GRV.CCM.52.2.9	Discuss understanding of procedure with person performing measurement.	Quarterly	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
266	Failure of the methane drainage system	TE 00000268	Failure of the methane drainage system	CT.00015878	Methane drainage infrastructure design is undertaken by competent person	CA.GRV.CCM.53.2.1	Ensure risk based documentation is in place for all surface gas infrastructure	Annual	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
267	Failure of the methane drainage system	TE 00000268	Failure of the methane drainage system	CT.00015878	Methane drainage infrastructure design is undertaken by competent person	CA.GRV.CCM.53.2.2	Complete an annual audit of all surface gas infrastructure installations owned by Anglo (UIS, SIS and Intersections) to ensure there are no variations to design	Annual	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
268	Failure of the methane drainage system	TE 00000268	Failure of the methane drainage system	CT.00015872	UG Niche Design Report	CA.GRV.CCM.54.2.1	Select a current active underground drilling site. Check the drilling location and setup for compliance with UIS drilling standards, including: / Water traps; / Dewater tank; / Valve, hose and pipe labelling; / Emergency and communications equipment; / Ventilation (brattice and/or venturi); / Gas monitoring (at drill site and/or just inbye); / Housekeeping; / Protection from damage; and / Correct signage.	Quarterly	Niehaus Wouter - [REDACTED]	Goonawardene Ravindu - [REDACTED]
269	Failure of the methane drainage system	TE 00000268	Failure of the methane drainage system	CT.00015872	UG Niche Design Report	CA.GRV.CCM.54.2.2	Select a current active underground drilling site. Check that all standpipes are labelled with: / Hole number; / Hole length including branches; / Start date; and / Finish date	Quarterly	Niehaus Wouter - [REDACTED]	Goonawardene Ravindu - [REDACTED]
270	Failure of the methane drainage system	TE 00000268	Failure of the methane drainage system	CT.00015872	UG Niche Design Report	CA.GRV.CCM.54.2.3	Review drilling logs/records at the drill site being checked. Confirm: / Completeness; / Accuracy; and / Quality of recording	Quarterly	Niehaus Wouter - [REDACTED]	Goonawardene Ravindu - [REDACTED]
271	Failure of the methane drainage system	TE 00000268	Failure of the methane drainage system	CT.00015872	UG Niche Design Report	CA.GRV.CCM.54.2.4	Verify that the calibration of the survey instrument is current.	Quarterly	Niehaus Wouter - [REDACTED]	Goonawardene Ravindu - [REDACTED]
272	Failure of the methane drainage system	TE 00000268	Failure of the methane drainage system	CT.00015872	UG Niche Design Report	CA.GRV.CCM.54.2.5	Check suction / pressure trends in the gas system for the previous month, to confirm sufficient suction available to meet current and planned drainage needs.	Quarterly	Niehaus Wouter - [REDACTED]	Goonawardene Ravindu - [REDACTED]
273	Failure of the methane drainage system	TE 00000268	Failure of the methane drainage system	CT.00015880	UIS Methane Drainage Infrastructure	CA.GRV.CCM.55.2.1	Select a section of methane drainage infrastructure underground installed in the previous quarter. Perform an inspection of this section of infrastructure to confirm compliance with installation standards signage requirements and protection from damage.	Quarterly	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
274	Failure of the methane drainage system	TE 00000268	Failure of the methane drainage system	CT.00015880	UIS Methane Drainage Infrastructure	CA.GRV.CCM.55.2.2	Pipe work used in the methane drainage system must be clearly marked and identified with markings to indicate contents and direction of flow. Audit a section of recently installed pipe work, and a section of older pipe work to ensure compliance with these signage requirements.	Quarterly	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
275	Failure of the methane drainage system	TE 00000268	Failure of the methane drainage system	CT.00015880	UIS Methane Drainage Infrastructure	CA.GRV.CCM.55.2.3	Search safety reporting database for any incidents, hazards or near misses in the previous quarter related to gas drainage infrastructure. Confirm that any required repair or improvement actions have been closed. Look for trends in damage or failures which may indicate poor installation standards.	Quarterly	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
276	Failure of the methane drainage system	TE 00000268	Failure of the methane drainage system	CT.00015880	UIS Methane Drainage Infrastructure	CA.GRV.CCM.55.2.4	Connection of an active pipeline will only be conducted by personnel authorised to carry out this function by the Ventilation Officer or personnel delegated. Select a section of pipeline recently made active – determine the person responsible for its connections – confirm that this person has the required authorisation to perform this activity.	Quarterly	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
277	Failure of the methane drainage system	TE 00000268	Failure of the methane drainage system	CT.00015880	UIS Methane Drainage Infrastructure	CA.GRV.CCM.55.2.5	Review gas detectors and verify calibration date is within compliance. Ensure gas monitors are positioned in the correct locations.	Quarterly	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
278	Failure of the methane drainage system	TE 00000268	Failure of the methane drainage system	CT.00015880	UIS Methane Drainage Infrastructure	CA.GRV.CCM.55.2.6	Verify interlock functional testing on drill rig has been completed for the previous 3 months.	Quarterly	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
279	Failure of the methane drainage system	TE 00000268	Failure of the methane drainage system	CT.00015877	Validation of Surface Inspections and Well-Head design	CA.GRV.CCM.56.2.1	Confirm that required daily/weekly/monthly inspections of the surface gas drainage infrastructure have been completed. This can be confirmed via a report from the work order system. Run a report for the last quarter, and check for the amount and type of inspections that have not been completed. Be aware of any trends in this information.	Quarterly	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
280	Failure of the methane drainage system	TE 00000268	Failure of the methane drainage system	CT.00015877	Validation of Surface Inspections and Well-Head design	CA.GRV.CCM.56.2.2	View a sample three written reports completed during the surface infrastructure inspections over the last quarter. Check for completeness, accuracy, quality, and that any issues raised have been closed out or are being actioned. Check that the reports have been countersigned by the relevant coordinator / superintendent.	Quarterly	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
281	Failure of the methane drainage system	TE 00000268	Failure of the methane drainage system	CT.00015877	Validation of Surface Inspections and Well-Head design	CA.GRV.CCM.56.2.3	Select one person who has completed a well inspection sheet this quarter, and confirm through the training records that they have the appropriate training and competencies required.	Quarterly	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
282	Failure of the methane drainage system	TE 00000268	Failure of the methane drainage system	CT.00015877	Validation of Surface Inspections and Well-Head design	CA.GRV.CCM.56.2.4	Select a random week from the preceding quarter, and check that Well Field Daily Monitoring Sheets have been completed on every day of that week. Check by inspection of the hard copy reports from that week.	Quarterly	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
283	Failure of the methane drainage system	TE 00000268	Failure of the methane drainage system	CT.00015877	Validation of Surface Inspections and Well-Head design	CA.GRV.CCM.56.2.5	Accompany a person performing daily well inspections, and confirm inspections are being completed adequately via observation and discussion with the person on their understanding of the inspection purpose and requirements. Select a different person in each quarter.	Quarterly	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
284	Failure of the methane drainage system	TE 00000268	Failure of the methane drainage system	CT.00015877	Validation of Surface Inspections and Well-Head design	CA.GRV.CCM.56.2.6	Challenge test their knowledge of: / Daily Well Inspection & Monitoring / Aims of the inspection process / Key things to look for during the inspection / Actions to be taken if issues are found / Standards for underground gas drainage infrastructure / Reporting and communication requirements	Quarterly	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
285	Failure of the methane drainage system	TE 00000268	Failure of the methane drainage system	CT.00015877	Validation of Surface Inspections and Well-Head design	CA.GRV.CCM.56.2.7	Check that the plan of all surface facilities and of any gas ranges and / or vacuum plant used on site is up to date and posted in the required locations around the surface.	Quarterly	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
286	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015521	Formal, documented and auditable Integrated Operational Risk Management processes	CA.GRV.CCM.57.2.1	Select and review the reports of three risk management activities which have taken place in the previous six months (either from functional process areas and/or projects).	Bi-Annually	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
287	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015521	Formal, documented and auditable Integrated Operational Risk Management processes	CA.GRV.CCM.57.2.2	/ Verify compliance with the standard, checking for: / Selection of the correct risk management tool / process for the type of assessment and expected level of risk and complexity.	Bi-Annually	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
288	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015521	Formal, documented and auditable Integrated Operational Risk Management processes	CA.GRV.CCM.57.2.3	Use of the correct consequence and likelihood definitions / Use of the correct 5x5 risk matrix or control effectiveness scoring matrix / Appropriate cross section of the workforce in attendance / Correct communication of results to the appropriate stakeholders	Bi-Annually	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
289	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015521	Formal, documented and auditable Integrated Operational Risk Management processes	CA.GRV.CCM.57.2.4	Review the quality of the risk assessment to ensure that all loss types have been considered (e.g. business, Equipment, environmental, legal and regulatory, social etc)	Bi-Annually	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
290	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015521	Formal, documented and auditable Integrated Operational Risk Management processes	CA.GRV.CCM.57.2.5	Select three actions from each of the three risk assessment reviewed above, and investigate whether these actions have been correctly entered into the action tracking system, and closed out by the required due date.	Bi-Annually	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
291	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015518	Formal, documented Change Management processes is in place and effective	CA.GRV.CCM.58.2.1	Review the list of significant incidents that have occurred in the previous six months. Select any of these incidents which should have triggered a review of any PHMP.	Bi-Annually	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
292	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015518	Formal, documented Change Management processes is in place and effective	CA.GRV.CCM.58.2.2	Where incidents are identified that should have triggered a review of a PHMP, verify that this review was conducted and that the updated document is now available.	Bi-Annually	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
293	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015520	Formal, documented Change Management processes	CA.GRV.CCM.59.2.1	Consider the changes to the operations and business over the previous six months. If necessary, review monthly reports for recollection of changes. Consider internal and external changes to the context of the operation.	Bi-Annually	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
294	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015520	Formal, documented Change Management processes	CA.GRV.CCM.59.2.2	For any significant change that may have compromised or changed the context of any PHMP, confirm that the PHMP has been reviewed. Verify that this review was conducted, and that the updated document is now available. Verify that the review adequately addressed the change.	Bi-Annually	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
295	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015520	Formal, documented Change Management processes	CA.GRV.CCM.59.2.3	Identify and review any of the following documents that have been reviewed, updated or changed in the previous six months - PHMPs, Critical Control Actions, Critical Control Assurance Actions, or Critical Control Review Checklists.	Bi-Annually	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
296	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015520	Formal, documented Change Management processes	CA.GRV.CCM.59.2.4	For any of these that has been changed, verify that the changes occurred to standard, including: / Completion of the Change Management Approval / Request form / Completion of a risk assessment, and classification of risks by acceptability	Bi-Annually	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
297	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015520	Formal, documented Change Management processes	CA.GRV.CCM.59.2.5	Designation of a Change Authoriser / Approval of the Change by the correct Technical Expert / Correct updating of the document review date, and posting of most recent document for workforce access.	Bi-Annually	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
298	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015520	Formal, documented Change Management processes	CA.GRV.CCM.59.2.6	Interview a selection of Workplace Supervisors, asking them to identify a change in a specific Functional Process and/or Project that has taken place in the previous six months. For each of the changes identified through the interviews, verify that the changes occurred to standard, including: /	Bi-Annually	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]



299	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015520	Formal, documented Change Management processes	CA.GRV.CCM.59.2.7	Completion of the Change Management Approval / Request form / Completion of a risk assessment, and classification of risks by acceptability / Designation of a Change Authoriser / Approval of the Change by the correct Technical Expert / Correct updating of the document review date and posting of most recent document for workforce access.	Bi-Annually	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
300	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015522	Site Senior Executive Statutory and Corporate Obligations	CA.GRV.CCM.60.2.1	Review the following in a workshop with the SLT: / The site Process Charts / The site Hazard Inventory / Systems in place to monitor the effectiveness of risk control / List of Critical Controls / List of Critical Control Assurance Actions	Annual	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
301	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015522	Site Senior Executive Statutory and Corporate Obligations	CA.GRV.CCM.60.2.2	/ The SLT will review these lists and identify: / The completeness of the Hazard Inventory / The adequacy of the control assurance processes and systems / The completeness of the Critical Control list / How effective the activities are	Annual	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
302	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015522	Site Senior Executive Statutory and Corporate Obligations	CA.GRV.CCM.60.2.3	This process should be a facilitated workshop which includes: / Focused questions such as "is the list complete?", "Is it correct?", and "Will these systems actually identify and correct issues?" / Consideration of incidents that have occurred in the previous year	Annual	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
303	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015524	Formal, documented and auditable Integrated Operational Risk Management processes / Identified Critical Controls that are: Specific / Measurable / Attainable / Realistic / Timely / Evaluated and Reviewed	CA.GRV.CCM.61.2.1	View a selection of ten completed monitoring activities from the previous six months. Verify that all checks have been completed on each sheet, and that quality comments have been recorded.	Bi-Annually	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
304	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015524	Formal, documented and auditable Integrated Operational Risk Management processes / Identified Critical Controls that are: Specific / Measurable / Attainable / Realistic / Timely / Evaluated and Reviewed	CA.GRV.CCM.61.2.2	Verify the Critical Control Assurance actions and reporting are occurring in alignment with the schedule in Enablon. Review the previous two month's performance.	Bi-Annually	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
305	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015524	Formal, documented and auditable Integrated Operational Risk Management processes / Identified Critical Controls that are: Specific / Measurable / Attainable / Realistic / Timely / Evaluated and Reviewed	CA.GRV.CCM.61.2.3	Review a report of the completion rate of Critical Control Assurance Actions for the previous six months. Check that completion rate is at an acceptable level, review for any trends, and investigate those Assurance Actions that are not completed.	Bi-Annually	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
306	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015516	Formal, documented and auditable Learning from Incidents processes / Formal Critical Control Monitoring System / Formal System Integrity Controls	CA.GRV.CCM.62.2.1	Review the action tracking system and identify the completion percentage of actions from incidents related to PHMP's, HPH's and HPI's (both legislative and Anglo). Check that actions are being completed by their due date. Look for any trends in deteriorating action completion.	Bi-Annually	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
307	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015516	Formal, documented and auditable Learning from Incidents processes / Formal Critical Control Monitoring System / Formal System Integrity Controls	CA.GRV.CCM.62.2.2	Select three incidents from the past six months that would have actions related to one or more PHMP's, HPH's and HPI's (both legislative and Anglo) For each incident, verify that: / All actions resulting from the investigation were entered into the action tracking system and assigned an owner and a due date / All actions have been completed by their due date and comments entered	Bi-Annually	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
308	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015516	Formal, documented and auditable Learning from Incidents processes / Formal Critical Control Monitoring System / Formal System Integrity Controls	CA.GRV.CCM.62.2.3	Investigate any actions that are overdue for completion.	Bi-Annually	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
309	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015516	Formal, documented and auditable Learning from Incidents processes / Formal Critical Control Monitoring System / Formal System Integrity Controls	CA.GRV.CCM.62.2.4	Select three actions that have been marked as complete in the previous six months. Confirm via in-field verification that these actions have been completed adequately.	Bi-Annually	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
310	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015528	Formal, documented and auditable Construction Standards, Installation Standards, Panel Standards / Statutory Inspections / Formal Critical Control Monitoring System / Formal System Integrity Controls	CA.GRV.CCM.63.2.1	Select a Principal Hazard and associated management plan (select a different Principal Hazard for each six-monthly period). Identify several controls for this principal hazard that involve either installation of hard controls, or inspections of workplaces.	Bi-Annually	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
311	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015528	Formal, documented and auditable Construction Standards, Installation Standards, Panel Standards / Statutory Inspections / Formal Critical Control Monitoring System / Formal System Integrity Controls	CA.GRV.CCM.63.2.2	Verify by interview or in-field inspection that each of these selected controls is in place, working and effective. Review evidence of installation check lists and inspection sheets to verify.	Bi-Annually	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
312	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015527	Formal, documented and auditable Integrated Operational Risk Management processes / Formal Principal Hazard Management Plans, Principal Control Management Plans	CA.GRV.CCM.64.2.1	Select two Principal Hazard Management Plans (select different management plans for each six-monthly check). Review the TARPS section of each PHMP, and identify areas in which the TARPs listed should be in use. Perform an in-field audit of these areas to verify that the TARPs are being utilized and are effective. Interview the process area's owner, and verify their knowledge and understanding of the TARP and PHMP requirements.	Bi-Annually	Bachmann Kate - [REDACTED]	Parsons-Young, Neil - [REDACTED]
313	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015527	Formal, documented and auditable Integrated Operational Risk Management processes / Formal Principal Hazard Management Plans, Principal Control Management Plans	CA.GRV.CCM.64.2.2	Select a specific process area in the operation (i.e. longwall, development, supply, office). Interview the process area owner to verify their knowledge and understanding of the TARPs that apply to the area. Confirm that the application of TARPs is occurring to standard, in terms of distribution, communication, and reporting on TARP levels.	Bi-Annually	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
314	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015523	Formal, documented and Mine Inspections risk assessment and inspection SOPs	CA.GRV.CCM.65.2.1	Select a sample of mine inspection reports, including samples from each of the different types of inspections (i.e. shifty, daily, weekly etc). Review the inspection reports and confirm: / Completion at the correct intervals / time period / Quality of report completion	Bi-Annually	Bachmann Kate - [REDACTED]	Parsons-Young, Neil - [REDACTED]
315	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015523	Formal, documented and Mine Inspections risk assessment and inspection SOPs	CA.GRV.CCM.65.2.2	Correct signoff by the person completing the inspection / Correct review and signoff by management (if required) / Any hazards identified have been corrected or raised through the hazard reporting system	Bi-Annually	Bachmann Kate - [REDACTED]	Parsons-Young, Neil - [REDACTED]
316	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015523	Formal, documented and Mine Inspections risk assessment and inspection SOPs	CA.GRV.CCM.65.2.3	Check the weekly inspection matrix and a sample of a series of inspection reports, verifying that inspections are being completed at the correct intervals, and that none have been missed. - Check that the person carrying out the inspections has the required competencies and appointments	Bi-Annually	Bachmann Kate - [REDACTED]	Parsons-Young, Neil - [REDACTED]
317	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015517	Formal Principal Hazard Management Plans that incorporate Trigger Action Response Plans / Critical Control Monitoring System	CA.GRV.CCM.66.2.1	Select a specific TARP related to a Principal Hazard. Review the detail in the TARP including the types of monitoring, the triggers, the roles, and the actions. Verify that these are still relevant, and will be effective in managing the risk of escalation	Bi-Annually	Bachmann Kate - [REDACTED]	Parsons-Young, Neil - [REDACTED]
318	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015517	Formal Principal Hazard Management Plans that incorporate Trigger Action Response Plans / Critical Control Monitoring System	CA.GRV.CCM.66.2.2	Perform an in-field audit of an operational area that is covered by the TARP selected. Determine what the current TARP level should be, and check that this has been correctly actioned. Ensure that any notification or communication of the current TARP level has taken place appropriately.	Bi-Annually	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
319	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015517	Formal Principal Hazard Management Plans that incorporate Trigger Action Response Plans / Critical Control Monitoring System	CA.GRV.CCM.66.2.3	Verify that gas alarm levels in the control room (and any other automatic monitoring system alarms) are in alignment with the levels specified in the relevant TARPs - i.e. that low level gas alarm points are set to the same value as the first stage of TARP escalation.	Bi-Annually	Bachmann Kate - [REDACTED]	Parsons-Young, Neil - [REDACTED]
320	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015517	Formal Principal Hazard Management Plans that incorporate Trigger Action Response Plans / Critical Control Monitoring System	CA.GRV.CCM.66.2.4	Discuss with a control room operator their understanding of the TARPs system in general, and the specific TARP reviewed in the first check above. Ensure TARPs are readily available in the control room, and that the current copies are available.	Bi-Annually	Bachmann Kate - [REDACTED]	Parsons-Young, Neil - [REDACTED]
321	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015517	Formal Principal Hazard Management Plans that incorporate Trigger Action Response Plans / Critical Control Monitoring System	CA.GRV.CCM.66.2.5	Interview an ERZ controller and a mine worker. Discuss the TARP system and the specific TARP selected in the first check. Confirm their understanding of knowledge of TARPs in general, and the triggers related to the specific TARP. Confirm their knowledge of where and when they should access TARPs.	Bi-Annually	Bachmann Kate - [REDACTED]	Parsons-Young, Neil - [REDACTED]
322	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015525	Formal Critical Control Monitoring System that assigns specific accountabilities, frequencies and Technical Requirements for implementing and assuring that Critical Controls are in place and remain effective	CA.GRV.CCM.67.2.1	Complete an audit of the Critical Control Assurance Action Work Management and Tracking System. The audit will include as a minimum: / Review of the system / Coverage of all Critical Controls / Adequacy of the checks / Completion of assurance action checks / Quality of completion and comments / Corrective action identification.	Annual	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
323	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015525	Formal Critical Control Monitoring System that assigns specific accountabilities, frequencies and Technical Requirements for implementing and assuring that Critical Controls are in place and remain effective	CA.GRV.CCM.67.2.2	Completion of corrective actions / Interviews with Assurance Action owners to confirm their knowledge and understanding of the system / Document control / Monitoring and reporting to site management / All changes to elements of the system (checks, intervals etc) have been authorized by a correct Change Management process.	Annual	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
324	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015525	Formal Critical Control Monitoring System that assigns specific accountabilities, frequencies and Technical Requirements for implementing and assuring that Critical Controls are in place and remain effective	CA.GRV.CCM.67.2.3	Ensure that a Corrective Action Plan is entered into the relevant action tracking database (e.g. Enablon) for all External Audits conducted and that actions are being completed.	Annual	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
325	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015526	Formal Critical Control Monitoring System that assigns specific accountabilities, frequencies and Technical Requirements for implementing and assuring that Critical Controls are in place and remain effective / System Integrity controls to assure that the CCMS itself remains effective	CA.GRV.CCM.68.2.1	Review a report of the completion rate of Critical Control Assurance Actions from Ellipse/Enablon for the previous quarter. Check that completion rate is at an acceptable level, review for any trends, and investigate those Assurance Actions that are not completed.	Quarterly	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
326	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015526	Formal Critical Control Monitoring System that assigns specific accountabilities, frequencies and Technical Requirements for implementing and assuring that Critical Controls are in place and remain effective / System Integrity controls to assure that the CCMS itself remains effective	CA.GRV.CCM.68.2.2	Verify the Critical Control Assurance actions and reporting are occurring in alignment with the flowchart and schedule shown in Enablon	Quarterly	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
327	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015526	Formal Critical Control Monitoring System that assigns specific accountabilities, frequencies and Technical Requirements for implementing and assuring that Critical Controls are in place and remain effective / System Integrity controls to assure that the CCMS itself remains effective	CA.GRV.CCM.68.2.3	Review the previous three month's performance. Verify that the Monthly CCAP report has been issued on time, and has been distributed to both the MNM Site Senior Executive and the Mine Operator.	Quarterly	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
328	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015526	Formal Critical Control Monitoring System that assigns specific accountabilities, frequencies and Technical Requirements for implementing and assuring that Critical Controls are in place and remain effective / System Integrity controls to assure that the CCMS itself remains effective	CA.GRV.CCM.68.2.4	View a selection of ten completed Critical Control Assurance Action sheets from the previous three months. Verify that all checks have been completed on each sheet, and that quality comments have been recorded.	Quarterly	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
329	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015526	Formal Critical Control Monitoring System that assigns specific accountabilities, frequencies and Technical Requirements for implementing and assuring that Critical Controls are in place and remain effective / System Integrity controls to assure that the CCMS itself remains effective	CA.GRV.CCM.68.2.5	Interview an owner of a Critical Control Assurance Action (select a different person each quarter). Discuss their knowledge and understanding of the Critical Control Assurance Actions system, including: / Purpose of the checks / How they were developed / Process for completion / Process for documenting / Process for raising actions resulting from the checks / Process for changing the checks or intervals	Quarterly	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]

330	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015519	Comprehensive Training Needs Analysis / Authorised Mine Training Scheme / ScenarioTES training recording and monitoring system	CA.GRV.CCM.69.2.1	Select four Principal Hazard Management Plans (select different management plans for each annual assurance check) that an introduction and basic explanation of Principal Hazard Management System (in particular Critical Controls) is included in the site induction and induction refresher.	Quarterly	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
331	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015519	Comprehensive Training Needs Analysis / Authorised Mine Training Scheme / ScenarioTES training recording and monitoring system	CA.GRV.CCM.69.2.2	Review training records to ensure that all the training required is being carried out. Verify that all the relevant roles are being covered in the intervals described. Verify that all the training packages listed exist, and are repeated at the listed intervals.	Quarterly	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
332	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015519	Comprehensive Training Needs Analysis / Authorised Mine Training Scheme / ScenarioTES training recording and monitoring system	CA.GRV.CCM.69.2.3	For the selected training packages reviewed in point 1, inspect all associated training and assessment materials. Ensure that sufficient reference is made to the Principal Hazard Management Plans and TARPs	Quarterly	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
333	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015519	Comprehensive Training Needs Analysis / Authorised Mine Training Scheme / ScenarioTES training recording and monitoring system	CA.GRV.CCM.69.2.4	Confirm that any training packages which reference PHMPs have been reviewed and updated in line with reviews and updates completed on the PHMPs themselves.	Quarterly	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
334	Failure of the critical control system	TE 00000270	Failure of the Critical Control System	CT.00015519	Comprehensive Training Needs Analysis / Authorised Mine Training Scheme / ScenarioTES training recording and monitoring system	CA.GRV.CCM.69.2.5	Confirm that an introduction to and explanation of TARP's is included in the site induction and induction refresher.	Quarterly	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
335	Roof fall	TE 00000245	Strata Failure	CT.00017136	Geological Model maintained in compliance with OMS Standards	CA.GRV.CCM.70.2.1	Geological model has been validated (tested) using processes outlined in the OMS Standard. Progress made on increasing accuracy on previous critical control - need to capture this as part of this action	Bi-Annually	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
336	Roof fall	TE 00000245	Strata Failure	CT.00017136	Geological Model maintained in compliance with OMS Standards	CA.GRV.CCM.70.2.2	Verify that the geological model is being maintained and updated	Bi-Annually	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
337	Roof fall	TE 00000245	Strata Failure	CT.00017136	Geological Model maintained in compliance with OMS Standards	CA.GRV.CCM.70.2.3	Review a current Geological / Geotechnical Hazard Plan to verify that all of the foreseeable strata, inrush, and/or, outburst related hazards have been identified.	Bi-Annually	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
338	Roof fall	TE 00000245	Strata Failure	CT.00017136	Geological Model maintained in compliance with OMS Standards	CA.GRV.CCM.70.2.4	Review the Strata, Inrush and Outburst Principal Hazard Management Plans to verify that the hazards that were identified in the Geological / Geotechnical Hazard Plan have been given due consideration.	Bi-Annually	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
339	Roof fall	TE 00000245	Strata Failure	CT.00017136	Geological Model maintained in compliance with OMS Standards	CA.GRV.CCM.70.2.5	Verify that the Mine Geologist is familiar with the OMS geological model validation requirements	Bi-Annually	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
340	Roof fall	TE 00000245	Strata Failure	CT.00017136	Geological Model maintained in compliance with OMS Standards	CA.GRV.CCM.70.2.6	Review strata defect register to ensure defects are being reported, inspected, repairs specified and closed out in suitable timeframes	Bi-Annually	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
341	Roof fall	TE 00000245	Strata Failure	CT.00017139	Defined OMS Design Guidelines - Adherence to approved design methodologies	CA.GRV.CCM.71.2.1	Review a current Strata Support design with the Mine Geotechnical Engineer and determine if the process is at a minimum industry standard and is in accordance with OMS Document 5 Geotechnical Support Design.	Bi-Annually	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
342	Roof fall	TE 00000245	Strata Failure	CT.00017139	Defined OMS Design Guidelines - Adherence to approved design methodologies	CA.GRV.CCM.71.2.2	Verify current designs are signed off by a Registered Professional Engineer of Queensland (RPEQ - Geotechnical) as per the Professional Engineers Act (2003) and Professional Engineers Regulation (2003).	Bi-Annually	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
343	Roof fall	TE 00000245	Strata Failure	CT.00017139	Defined OMS Design Guidelines - Adherence to approved design methodologies	CA.GRV.CCM.71.2.3	Verify that the current Support Design has been authorised (signed off) by the Underground Mine Manager.	Bi-Annually	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
344	Roof fall	TE 00000245	Strata Failure	CT.00017139	Defined OMS Design Guidelines - Adherence to approved design methodologies	CA.GRV.CCM.71.2.4	Verify that the current Support Design has been authorised (signed off) by the Principal Geotechnical Engineer.	Bi-Annually	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
345	Roof fall	TE 00000245	Strata Failure	CT.00017139	Defined OMS Design Guidelines - Adherence to approved design methodologies	CA.GRV.CCM.71.2.5	Verify that there is a current Support Design for all critical excavations (as per OMS requirements).	Bi-Annually	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
346	Roof fall	TE 00000245	Strata Failure	CT.00017295	Strata support is installed to a standard and movement is monitored to detect potential failures	CA.GRV.CCM.72.2.1	Verify strata monitoring is carried out and reported to standard	Quarterly	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
347	Roof fall	TE 00000245	Strata Failure	CT.00017295	Strata support is installed to a standard and movement is monitored to detect potential failures	CA.GRV.CCM.72.2.2	Verify Strata Support installation monitoring is being carried out and reported to standard	Quarterly	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
348	Roof fall	TE 00000245	Strata Failure	CT.00017295	Strata support is installed to a standard and movement is monitored to detect potential failures	CA.GRV.CCM.72.2.3	Select an area in the UG workings for inspection (min. 1 pillar /2 headings); / Confirm that the relevant support plan number for area	Quarterly	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
349	Roof fall	TE 00000245	Strata Failure	CT.00017295	Strata support is installed to a standard and movement is monitored to detect potential failures	CA.GRV.CCM.72.2.4	Confirm that there is a support design document in place for this support plan	Quarterly	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
350	Roof fall	TE 00000245	Strata Failure	CT.00017295	Strata support is installed to a standard and movement is monitored to detect potential failures	CA.GRV.CCM.72.2.5	Are all relevant and current Strata Support Plans, Strata Control TARPs and Hazard Plans displayed in the cribroom?	Quarterly	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
351	Roof fall	TE 00000245	Strata Failure	CT.00017295	Strata support is installed to a standard and movement is monitored to detect potential failures	CA.GRV.CCM.72.2.6	Is support installed correctly as per the Strata Support Plans (within tolerance)?	Quarterly	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
352	Roof fall	TE 00000245	Strata Failure	CT.00017295	Strata support is installed to a standard and movement is monitored to detect potential failures	CA.GRV.CCM.72.2.7	Have Strata Control TARPs been followed correctly?	Quarterly	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
353	Roof fall	TE 00000245	Strata Failure	CT.00017295	Strata support is installed to a standard and movement is monitored to detect potential failures	CA.GRV.CCM.72.2.8	Is there any damaged support (provide details if yes)?	Quarterly	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
354	Roof fall	TE 00000245	Strata Failure	CT.00017295	Strata support is installed to a standard and movement is monitored to detect potential failures	CA.GRV.CCM.72.2.9	Is the minimum density of prescribed monitoring in place?	Quarterly	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
355	Roof fall	TE 00000245	Strata Failure	CT.00017208	Priority Critical Control - Geological mapping	CA.GRV.CCM.73.2.1	Complete an independent mapping report of the newly driven development drive completed in the previous month.	Monthly	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
356	Roof fall	TE 00000245	Strata Failure	CT.00017208	Priority Critical Control - Geological mapping	CA.GRV.CCM.73.2.2	Review the secondary support installations and any SCARP responses from the previous month with the Risk Owner (UMM). Consult with the Risk Owner to identify a sample area to be mapped based on the SCARP responses or secondary support installations. Include these findings in your report.	Monthly	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
357	Roof fall	TE 00000245	Strata Failure	CT.00017208	Priority Critical Control - Geological mapping	CA.GRV.CCM.73.2.3	Ensure that the location of features are annotated onto the mapping sheet.	Monthly	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
358	Roof fall	TE 00000245	Strata Failure	CT.00017208	Priority Critical Control - Geological mapping	CA.GRV.CCM.73.2.4	Provide the independent Geological and Geotechnical mapping report of your findings to the Technical Services Manager for review.	Monthly	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
359	Roof fall	TE 00000245	Strata Failure	CT.00017203	Priority Critical Control - Geological mapping validation	CA.GRV.CCM.74.2.1	Compare these reports against the second mapping completed by the independent Geotechnical Engineer as part of the monthly critical controls. / Identify if there are any discrepancies between the two reports	Monthly	Niehaus Wouter - [REDACTED]	Mohr Logan [REDACTED]
360	Roof fall	TE 00000245	Strata Failure	CT.00017203	Priority Critical Control - Geological mapping validation	CA.GRV.CCM.74.2.2	For areas where there are inconsistencies in the mapping inspect the area with both Geologist and Geotechnical Engineer to validate actual status and record according to findings.	Monthly	Niehaus Wouter - [REDACTED]	Mohr Logan [REDACTED]
361	Roof fall	TE 00000245	Strata Failure	CT.00017203	Priority Critical Control - Geological mapping validation	CA.GRV.CCM.74.2.3	Consult with the UMM to determine appropriate corrective actions for differences in the reports, and / For non compliances ensure a High Potential Hazard report is raised and ensure remedial actions are undertaken to address any non-compliances	Monthly	Niehaus Wouter - [REDACTED]	Mohr Logan [REDACTED]
362	Roof fall	TE 00000245	Strata Failure	CT.00017269	Priority Critical Control - Process Control for Geological Mapping	CA.GRV.CCM.75.2.1	Review the last 6 months Critical Control Audits completed by the TSM. / Verify that the Geotechnical Critical Control mapping is been completed independently from the original mapping completed by the Geologist.	Bi-Annually	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
363	Roof fall	TE 00000245	Strata Failure	CT.00017269	Priority Critical Control - Process Control for Geological Mapping	CA.GRV.CCM.75.2.2	Validate that any differences in the mapping have been inspected by the TSM, Geologist and Geotechnical Engineer and discrepancies rectified. / Verify that any non-compliances have remedial actions assigned	Bi-Annually	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
364	Fire within infrastructure	TE 00000247	Surface Fire	CT.00016989	Conveyor design and installation [including hungry boards, water sprays]	CA.GRV.CCM.76.2.1	Review a sample of Hazard & Housekeeping / Maintenance ERZ Reports to confirm regular inspections are being conducted of the conveyors to determine if there are any excessive conveyor dust or accumulations of coal on conveyor components or beside / under conveyors (particularly in relation to rotating equipment e.g. conveyor rollers, etc.).	Bi-Annually	Bachmann Kate - [REDACTED]	Britton Michael - [REDACTED]
365	Fire within infrastructure	TE 00000247	Surface Fire	CT.00016989	Conveyor design and installation [including hungry boards, water sprays]	CA.GRV.CCM.76.2.2	Confirm that appropriate corrective action is being taken when excessive conveyor dust or accumulations of coal are identified on the conveyor system	Bi-Annually	Bachmann Kate - [REDACTED]	Britton Michael - [REDACTED]
366	Fire within infrastructure	TE 00000247	Surface Fire	CT.00016989	Conveyor design and installation [including hungry boards, water sprays]	CA.GRV.CCM.76.2.3	Confirm that for matters relating to conveyor dust or excessive accumulations of coal where the actions required to rectify are beyond the resources of the person conducting the inspection and cannot be fixed on shift, that there has been either an incident report or defect report raised.	Bi-Annually	Bachmann Kate - [REDACTED]	Britton Michael - [REDACTED]
367	Fire within infrastructure	TE 00000247	Surface Fire	CT.00016989	Conveyor design and installation [including hungry boards, water sprays]	CA.GRV.CCM.76.2.4	Confirm that any defects that have been raised as a result of conveyor dust or excessive accumulations of coal have been completed (either by physical inspection or confirmation through the work order system review) and that these have been completed within the designated response time.	Bi-Annually	Bachmann Kate - [REDACTED]	Britton Michael - [REDACTED]
368	Fire within infrastructure	TE 00000247	Surface Fire	CT.00016989	Conveyor design and installation [including hungry boards, water sprays]	CA.GRV.CCM.76.2.5	Confirm that any incident reports that have been raised as a result of conveyor dust or excessive accumulations of coal have been completed (either by physical inspection or confirmation through the Enablon system review) and are still effective (if able, confirm via physical inspection of the site where the coal dust accumulation was identified).	Bi-Annually	Bachmann Kate - [REDACTED]	Britton Michael - [REDACTED]
369	Fire within infrastructure	TE 00000247	Surface Fire	CT.00016989	Conveyor design and installation [including hungry boards, water sprays]	CA.GRV.CCM.76.2.6	Physically inspect and confirm that water sprays for the control of dust are operational on loading and transfer point on a representative sample of conveyors	Bi-Annually	Bachmann Kate - [REDACTED]	Britton Michael - [REDACTED]
370	Fire within infrastructure	TE 00000247	Surface Fire	CT.00016989	Conveyor design and installation [including hungry boards, water sprays]	CA.GRV.CCM.76.2.7	Physically inspect a representative sample of conveyors and confirm that there is no excessive coal dust accumulations	Bi-Annually	Bachmann Kate - [REDACTED]	Britton Michael - [REDACTED]
371	Fire within infrastructure	TE 00000247	Surface Fire	CT.00016989	Conveyor design and installation [including hungry boards, water sprays]	CA.GRV.CCM.76.2.8	Attempt to identify any trends relating to excessive coal dust accumulations on conveyors as a result of reviewing the shift reports, incident reports and defect reports and determine if engineering controls have been identified and implemented to prevent ongoing recurrence of accumulations (i.e. check that more appropriate 'hard' controls are being implemented as opposed to 'soft' controls).	Bi-Annually	Bachmann Kate - [REDACTED]	Britton Michael - [REDACTED]

372	Fire within infrastructure	TE 00000247	Surface Fire	CT.00016950	Explosives ONLY to be stored on surfaced in Designated Explosives Magazine [e.g. fire resistant shipping containers]	CA.GRV.CCM.77.2.1	Physically inspect any containers used for the Storage Use Transport and Disposal of explosives and ensure: / They are constructed and maintained in accordance with requirements of Australian Standards and applicable statutes / labelled with the word 'explosives' printed in red on a white background	Annual	Bachmann Kate - [REDACTED]	Parsons-Young, Neil - [REDACTED]
373	Fire within infrastructure	TE 00000247	Surface Fire	CT.00016950	Explosives ONLY to be stored on surfaced in Designated Explosives Magazine [e.g. fire resistant shipping containers]	CA.GRV.CCM.77.2.2	Interview Magazine keeper in respect to frequency of inspections and management of non-compliances	Annual	Bachmann Kate - [REDACTED]	Parsons-Young, Neil - [REDACTED]
374	Fire within infrastructure	TE 00000247	Surface Fire	CT.00016950	Explosives ONLY to be stored on surfaced in Designated Explosives Magazine [e.g. fire resistant shipping containers]	CA.GRV.CCM.77.2.3	Check magazine records to ensure they are maintained to standard	Annual	Bachmann Kate - [REDACTED]	Parsons-Young, Neil - [REDACTED]
375	Fire within infrastructure	TE 00000247	Surface Fire	CT.00016950	Explosives ONLY to be stored on surfaced in Designated Explosives Magazine [e.g. fire resistant shipping containers]	CA.GRV.CCM.77.2.4	Verify Demarcated transport [specialised vehicles] in Accordance Aust Standard 2187 Explosives, Storage Transport & Use	Annual	Bachmann Kate - [REDACTED]	Parsons-Young, Neil - [REDACTED]
376	Fire within infrastructure	TE 00000247	Surface Fire	CT.00017067	Maintenance of fire breaks	CA.GRV.CCM.78.2.1	Select a sample of infrastructure, other than Seamgas installations with fire breaks and ensure that fire Breaks and Vegetation Clear Zones are in place and maintained.	Quarterly	Bachmann Kate - [REDACTED]	Britton Michael - [REDACTED]
377	Fire within infrastructure	TE 00000247	Surface Fire	CT.00017067	Maintenance of fire breaks	CA.GRV.CCM.78.2.2	Interview Seam Gas personnel regarding Seam gas infrastructure and the provision and maintenance of fire breaks	Quarterly	Bachmann Kate - [REDACTED]	Britton Michael - [REDACTED]
378	Fire within infrastructure	TE 00000247	Surface Fire	CT.00017067	Maintenance of fire breaks	CA.GRV.CCM.78.2.3	Inspect Infrastructure with Seam Gas personnel	Quarterly	Bachmann Kate - [REDACTED]	Britton Michael - [REDACTED]
379	Fire within infrastructure	TE 00000247	Surface Fire	CT.00017067	Maintenance of fire breaks	CA.GRV.CCM.78.2.4	Check with EEM to ensure power line easements are maintained to acceptable standard.	Quarterly	Bachmann Kate - [REDACTED]	Britton Michael - [REDACTED]
380	Fire within infrastructure	TE 00000247	Surface Fire	CT.00017067	Maintenance of fire breaks	CA.GRV.CCM.78.2.5	Check previous work orders for fire break inspections to ensure that non-compliances have been actioned and closed out	Quarterly	Bachmann Kate - [REDACTED]	Britton Michael - [REDACTED]
381	Fire within infrastructure	TE 00000247	Surface Fire	CT.00017007	Designated bulk fuel storage pod suitably located and banded [Depot Set-up Standard]	CA.GRV.CCM.79.2.1	Physically inspect a sample of Fuel Storage and hazardous substance storage facilities to verify that they are suitably located, the bunding is in tact and they remain in compliance with standard	Quarterly	Bachmann Kate - [REDACTED]	Britton Michael - [REDACTED]
382	Fire within infrastructure	TE 00000247	Surface Fire	CT.00017007	Designated bulk fuel storage pod suitably located and banded [Depot Set-up Standard]	CA.GRV.CCM.79.2.2	Check that Bulk Storage tanks meet required standard.	Quarterly	Bachmann Kate - [REDACTED]	Britton Michael - [REDACTED]
383	Fire within infrastructure	TE 00000247	Surface Fire	CT.00017007	Designated bulk fuel storage pod suitably located and banded [Depot Set-up Standard]	CA.GRV.CCM.79.2.3	Verify that the Fuel and Lube supplier have checked the fuel storage facility yearly to ensure they meet the standard required for safe storage.	Quarterly	Bachmann Kate - [REDACTED]	Britton Michael - [REDACTED]
384	Fire within infrastructure	TE 00000247	Surface Fire	CT.00017007	Designated bulk fuel storage pod suitably located and banded [Depot Set-up Standard]	CA.GRV.CCM.79.2.4	On two yearly basis ensure underground hydrocarbon lines are pressure tested.	Quarterly	Bachmann Kate - [REDACTED]	Britton Michael - [REDACTED]
385	Fire within infrastructure	TE 00000247	Surface Fire	CT.00017007	Designated bulk fuel storage pod suitably located and banded [Depot Set-up Standard]	CA.GRV.CCM.79.2.5	Verify that hazard and housekeeping audits are being completed and that the audit criteria specifically addresses fuel storage and serviceability. Validate that non-compliances from hazard and housekeeping inspections have been completed to the required standard.	Quarterly	Bachmann Kate - [REDACTED]	Britton Michael - [REDACTED]
386	Fire within infrastructure	TE 00000247	Surface Fire	CT.00016993	Engineering design of the system	CA.GRV.CCM.80.2.1	1. Review a random sample of borehole commissioning sheets for the previous quarter and verify that: / The beer gas system and fire rated valves are fully operational as per the commissioning sheet requirements / verify that any non-compliances to the commissioning sheets or defects have been identified and closed out within the required timeframes	Quarterly	Bachmann Kate - [REDACTED]	Mulcahy Bevin - [REDACTED]
387	Fire within infrastructure	TE 00000247	Surface Fire	CT.00016993	Engineering design of the system	CA.GRV.CCM.80.2.2	2. Validate that the Seam gas pipeline network and valving sequence system is current and up to date / Ensure that 8000 hour services on the gas compressors and vacuum pumps validate that the actuator valves are operating in accordance with design and alarming sequence requirements / Validate that the gas leak register and associated actions have been closed out within the required timeframes	Quarterly	Bachmann Kate - [REDACTED]	Mulcahy Bevin - [REDACTED]
388	Fire within infrastructure	TE 00000247	Surface Fire	CT.00017011	Design, selection, commissioning, operating & maintenance of Electrical Equipment	CA.GRV.CCM.81.2.1	Inspect two electrical projects to ensure change management process has been followed.	Quarterly	Paganoni Peter - [REDACTED]	Bailey Ian - [REDACTED]
389	Fire within infrastructure	TE 00000247	Surface Fire	CT.00017011	Design, selection, commissioning, operating & maintenance of Electrical Equipment	CA.GRV.CCM.81.2.2	Verify that, if required, a fault study and arc flash study have been modelled.	Quarterly	Paganoni Peter - [REDACTED]	Bailey Ian - [REDACTED]
390	Fire within infrastructure	TE 00000247	Surface Fire	CT.00017011	Design, selection, commissioning, operating & maintenance of Electrical Equipment	CA.GRV.CCM.81.2.3	Verify that relevant arc flash labelling has been fitted	Quarterly	Paganoni Peter - [REDACTED]	Bailey Ian - [REDACTED]
391	Fire within infrastructure	TE 00000247	Surface Fire	CT.00017011	Design, selection, commissioning, operating & maintenance of Electrical Equipment	CA.GRV.CCM.81.2.4	Ensure no equipment above "Arc Flash Category 2" has been introduced without relevant risk assessment and approval by EEM and UMM/SSE.	Quarterly	Paganoni Peter - [REDACTED]	Bailey Ian - [REDACTED]
392	Fire within infrastructure	TE 00000247	Surface Fire	CT.00017011	Design, selection, commissioning, operating & maintenance of Electrical Equipment	CA.GRV.CCM.81.2.5	Check maintenance strategy has been turned and confirms operational effectiveness of protection equipment	Quarterly	Paganoni Peter - [REDACTED]	Bailey Ian - [REDACTED]
393	Fire within infrastructure	TE 00000247	Surface Fire	CT.00017011	Design, selection, commissioning, operating & maintenance of Electrical Equipment	CA.GRV.CCM.81.2.6	Check maintenance strategy details protection settings and they correlate with protection study.	Quarterly	Paganoni Peter - [REDACTED]	Bailey Ian - [REDACTED]
394	Fire within infrastructure	TE 00000247	Surface Fire	CT.00017123	Engineered design of flare	CA.GRV.CCM.83.2.1	Review a sample of work orders for the regular maintenance and cleaning of flame arrestors and validate that: / The flame arrestors on all flares and venturis have been cleaned at regular intervals as scheduled in the work management system	Quarterly	Bachmann Kate - [REDACTED]	Mulcahy Bevin - [REDACTED]
395	Fire within infrastructure	TE 00000247	Surface Fire	CT.00017123	Engineered design of flare	CA.GRV.CCM.83.2.2	Verify that any defects or non-compliances have been actioned within the correct timeframes	Quarterly	Bachmann Kate - [REDACTED]	Mulcahy Bevin - [REDACTED]
396	Fire within infrastructure	TE 00000247	Surface Fire	CT.00016932	Multiple Escapeways to Fresh Air	CA.GRV.CCM.84.2.1	Review a copy of the Surface Fire Management Plan to ensure it matches or exceeds the requirements of the relevant Fire Fighting statutes [Building Act 1975, Building Codes, Fire & Rescue Services Act 1990, Workplace Health & Safety Act] in respect to the provision of Emergency Evacuation and Muster areas	Bi-Annually	Bachmann Kate - [REDACTED]	Parsons-Young, Neil - [REDACTED]
397	Fire within infrastructure	TE 00000247	Surface Fire	CT.00016932	Multiple Escapeways to Fresh Air	CA.GRV.CCM.84.2.2	Review a copy of the Surface Fire Management Plan to ensure it matches or exceeds the requirements of the relevant Fire Fighting statutes [Building Act 1975, Building Codes, Fire & Rescue Services Act 1990, Workplace Health & Safety Act] in respect to the provision of early warning devices	Bi-Annually	Bachmann Kate - [REDACTED]	Parsons-Young, Neil - [REDACTED]
398	Fire within infrastructure	TE 00000247	Surface Fire	CT.00016932	Multiple Escapeways to Fresh Air	CA.GRV.CCM.84.2.3	Review a copy of the Surface Fire Management Plan to ensure it matches or exceeds the requirements of the relevant Fire Fighting statutes [Building Act 1975, Building Codes, Fire & Rescue Services Act 1990, Workplace Health & Safety Act] in respect to the provision and regular inspection % testing of adequate fire fighting facilities	Bi-Annually	Bachmann Kate - [REDACTED]	Parsons-Young, Neil - [REDACTED]
399	Fire within infrastructure	TE 00000247	Surface Fire	CT.00017054	Clear Zones / Fire Breaks requirement surrounding gas drainage infrastructure	CA.GRV.CCM.85.2.1	Physically inspect required Fire Breaks and Vegetation Clear Zones around Seamgas infrastructure to ensure they are maintained in compliance with standard	Quarterly	Bachmann Kate - [REDACTED]	Mulcahy Bevin - [REDACTED]
400	Fire within infrastructure	TE 00000247	Surface Fire	CT.00017054	Clear Zones / Fire Breaks requirement surrounding gas drainage infrastructure	CA.GRV.CCM.85.2.2	Verify that the oxygen sensors on the gas drainage plant are operational and are being maintained to standard	Quarterly	Bachmann Kate - [REDACTED]	Mulcahy Bevin - [REDACTED]
401	Irrespirable atmosphere Explosive atmosphere Engulfed personnel	TE 00000250	Toxic / Irrespirable Atmosphere	CT.00015104	Hard barrier across all Final Panel Seal sites during sealing	CA.GRV.CCM.86.2.1	Review 3 complete checklist from seal construction to ensure barricade, notice and monitoring have been installed.	Quarterly	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
402	Irrespirable atmosphere Explosive atmosphere Engulfed personnel	TE 00000250	Toxic / Irrespirable Atmosphere	CT.00015104	Hard barrier across all Final Panel Seal sites during sealing	CA.GRV.CCM.86.2.2	Review sample of ERZC reports to identify that VCD contractors and seal site areas are being inspected	Quarterly	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
403	Irrespirable atmosphere Explosive atmosphere Engulfed personnel	TE 00000250	Toxic / Irrespirable Atmosphere	CT.00015104	Hard barrier across all Final Panel Seal sites during sealing	CA.GRV.CCM.86.2.3	Inspect sample of final seal sites to ensure that hard barriers are installed across all Final Panel Seal sites during sealing and that they are positively ventilated	Quarterly	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
404	Irrespirable atmosphere Explosive atmosphere Engulfed personnel	TE 00000250	Toxic / Irrespirable Atmosphere	CT.00015130	Gas monitoring system [provides early warning to withdraw to Place of Safety]	CA.GRV.CCM.87.2.1	Perform an underground audit of real time gas monitoring installations. / Visit a minimum of three real time gas monitoring points (select different points / areas each 6 monthly period). / Audit the gas monitoring points for compliance with standards.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
405	Irrespirable atmosphere Explosive atmosphere Engulfed personnel	TE 00000250	Toxic / Irrespirable Atmosphere	CT.00015130	Gas monitoring system [provides early warning to withdraw to Place of Safety]	CA.GRV.CCM.87.2.2	Complete the following checks at each location: / That monitoring heads are located in the correct position in the heading, and exposed to the air stream. / That the monitoring head is protected from damage or obstruction. / Cross-check reading on monitoring head with a portable gas monitor, and check calibration sticker to confirm calibration is current.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
406	Irrespirable atmosphere Explosive atmosphere Engulfed personnel	TE 00000250	Toxic / Irrespirable Atmosphere	CT.00015130	Gas monitoring system [provides early warning to withdraw to Place of Safety]	CA.GRV.CCM.87.2.3	Perform an underground audit of tube bundle monitoring points. / Visit a minimum of three tube bundle monitoring points (select different points / areas each 6 monthly period). / Audit the gas monitoring points for compliance with standards.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
407	Irrespirable atmosphere Explosive atmosphere Engulfed personnel	TE 00000250	Toxic / Irrespirable Atmosphere	CT.00015130	Gas monitoring system [provides early warning to withdraw to Place of Safety]	CA.GRV.CCM.87.2.4	Complete the following checks at each location: / All tubes fitted with self-draining water traps at seal sites. / All tubes fitted with end of line dust filters. / That monitoring heads are located in the correct position in the heading (upper third of the roadway), and exposed to the air stream.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
408	Irrespirable atmosphere Explosive atmosphere Engulfed personnel	TE 00000250	Toxic / Irrespirable Atmosphere	CT.00015130	Gas monitoring system [provides early warning to withdraw to Place of Safety]	CA.GRV.CCM.87.2.5	That flame arrestors and water traps (or in line filter) are in place and emptied. / That the monitoring head is protected from damage or obstruction.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
409	Irrespirable atmosphere Explosive atmosphere Engulfed personnel	TE 00000250	Toxic / Irrespirable Atmosphere	CT.00015130	Gas monitoring system [provides early warning to withdraw to Place of Safety]	CA.GRV.CCM.87.2.6	Review the tube bundle locations on the mine plan, and confirm that the three which were audited underground are shown in their correct locations on the current mine plan.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
410	Irrespirable atmosphere Explosive atmosphere Engulfed personnel	TE 00000250	Toxic / Irrespirable Atmosphere	CT.00015130	Gas monitoring system [provides early warning to withdraw to Place of Safety]	CA.GRV.CCM.87.2.7	Check surface gas monitoring system. For each of the gas monitoring points audited in the above checks (both real time and tube bundle) Confirm: / That the real time gas monitors are functioning correctly and displaying on the surface. / That the tube bundle readings are displaying on the surface.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
411	Irrespirable atmosphere Explosive atmosphere Engulfed personnel	TE 00000250	Toxic / Irrespirable Atmosphere	CT.00015130	Gas monitoring system [provides early warning to withdraw to Place of Safety]	CA.GRV.CCM.87.2.8	While performing inspection/audit of underground gas monitoring points, discuss with an ERZ Controller their understanding and knowledge of gas monitoring point installation standards and requirements.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]

412	Irrespirable atmosphere Explosive atmosphere Engulfed personnel	TE 00000250	Toxic / Irrespirable Atmosphere	CT.00015130	Gas monitoring system [provides early warning to withdraw to Place of Safety]	CA.GRV.CCM.87.2.9	Confirm completion of the most recent monthly tube bundle line integrity test. Confirm the test was completed and correctly reported, and that the test was conducted by an appropriately trained and authorised person.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
413	Irrespirable atmosphere Explosive atmosphere Engulfed personnel	TE 00000250	Toxic / Irrespirable Atmosphere	CT.00015130	Gas monitoring system [provides early warning to withdraw to Place of Safety]	CA.GRV.CCM.87.2.10	Challenge test an electrician on their understanding and knowledge of gas monitoring point installation standards and requirements.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
414	Fire within infrastructure	TE 00000248	Underground Fire	CT.00015393	Designated underground bulk fuel storage pod suitably located and banded	CA.GRV.CCM.89.2.1	Physically inspect Underground Fuel Storage Pod to check it is suitably located, the bunding is in tact and the depot is set-up in compliance with standard	Bi-Annually	Niehaus Wouter - [REDACTED]	Perks Jeffrey - [REDACTED]
415	Fire within infrastructure	TE 00000248	Underground Fire	CT.00015341	Design, selection, commissioning, operating & maintenance of Electrical Equipment	CA.GRV.CCM.90.2.1	Choose three pieces of equipment / installations that have been introduced to site in previous three months. / Review the Verification Dossiers and confirm that the Introduction to Site Checklists, and Commissioning Sheets have been fully completed (check for quality of completion) and authorised by the appropriate site personnel.	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
416	Fire within infrastructure	TE 00000248	Underground Fire	CT.00015341	Design, selection, commissioning, operating & maintenance of Electrical Equipment	CA.GRV.CCM.90.2.2	Verify that commissioning was completed in accordance with any specific requirements outlined in HMP - Commissioning Electrical Equipment (e.g. requirements for switchboards, motors, lighting, batteries, battery chargers, inverters, UPS, power factor correction, Ex equipment, etc.).	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
417	Fire within infrastructure	TE 00000248	Underground Fire	CT.00015341	Design, selection, commissioning, operating & maintenance of Electrical Equipment	CA.GRV.CCM.90.2.3	Review that a maintenance regime (i.e. work orders) have been established for maintenance of the equipment / installation and that, for the past three months, maintenance has been occurring on this equipment / installation as per the requirements outlined in the verification dossier.	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
418	Fire within infrastructure	TE 00000248	Underground Fire	CT.00015341	Design, selection, commissioning, operating & maintenance of Electrical Equipment	CA.GRV.CCM.90.2.4	Verify that NO oil filled transformers have been introduced to the underground in the past three months.	Quarterly	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
419	Fire within infrastructure	TE 00000248	Underground Fire	CT.00015447	Design to incorporate Enclosed / Wet Brake systems ONLY underground	CA.GRV.CCM.91.2.1	Select a sample of at least 5 machine dossiers for wet brake systems and verify the machine is fitted with a wet brake system	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
420	Fire within infrastructure	TE 00000248	Underground Fire	CT.00015447	Design to incorporate Enclosed / Wet Brake systems ONLY underground	CA.GRV.CCM.91.2.2	Verify that the maintenance regime (i.e. work orders) have been established for these machines that ensures brakes are tested weekly and the oil levels (brakes) are checked weekly.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
421	Fire within infrastructure	TE 00000248	Underground Fire	CT.00015490	Design & Specifications of Flame Trap / Spark Arrestor installed on intake manifolds of Flameproof Vehicles	CA.GRV.CCM.92.2.1	Select at least 3 machines (LHD's or man transporters) that were not selected in the previous critical control audit and review a sample of work orders to confirm the following: / that low water shutdown scrubber system is being checked / check if any defects have been identified.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
422	Fire within infrastructure	TE 00000248	Underground Fire	CT.00015490	Design & Specifications of Flame Trap / Spark Arrestor installed on intake manifolds of Flameproof Vehicles	CA.GRV.CCM.92.2.2	If defects have been identified, have they been serviced or repaired in the correct time frames / Confirm that the sealing arrangement is being regularly checked for the particulate filters / Confirm the operation of the particulate filter back pressure gauge	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
423	Fire within infrastructure	TE 00000248	Underground Fire	CT.00015490	Design & Specifications of Flame Trap / Spark Arrestor installed on intake manifolds of Flameproof Vehicles	CA.GRV.CCM.92.2.3	Check the machine dossier of the selected equipment and verify the following: / Verify that the sentinels have been changed out on a 3 monthly basis	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
424	Fire within infrastructure	TE 00000248	Underground Fire	CT.00015394	Auto Fire Suppression Systems on diesel vehicles	CA.GRV.CCM.93.2.1	Select at least 3 machines (LHD's or man transporters) that were not selected in the previous critical control audit and review a sample of work orders to confirm the following: / Verify that the 6 monthly and 12 monthly fire suppression checks have been carried out	Annual	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
425	Fire within infrastructure	TE 00000248	Underground Fire	CT.00015394	Auto Fire Suppression Systems on diesel vehicles	CA.GRV.CCM.93.2.2	Ensure dossier contains the latest fire suppression service sheets to confirm the work was carried out;	Annual	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
426	Fire within infrastructure	TE 00000248	Underground Fire	CT.00015394	Auto Fire Suppression Systems on diesel vehicles	CA.GRV.CCM.93.2.3	If any defects have been identified in the last 6 months ensure that they have been repaired and returned to service in the correct timeframes.	Annual	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
427	Fire within infrastructure	TE 00000248	Underground Fire	CT.00015411	Fire Fighting facilities and resources	CA.GRV.CCM.96.2.1	Review MP for Fire Prevention and Control to ensure that the identified control strategies are in place and effective.	Quarterly	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
428	Fire within infrastructure	TE 00000248	Underground Fire	CT.00015411	Fire Fighting facilities and resources	CA.GRV.CCM.96.2.2	Select a section of the mine (not checked on previous critical control check) and confirm that fire fighting equipment is in compliance with the standards (e.g. type, location, inspection in date) outlined in the MP - Fire Fighting.	Quarterly	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
429	Fire within infrastructure	TE 00000248	Underground Fire	CT.00015411	Fire Fighting facilities and resources	CA.GRV.CCM.96.2.3	Review Fire Officer Monthly reports for previous quarter to determine that any previous months actions deficiencies have been rectified.	Quarterly	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
430	Fire within infrastructure	TE 00000248	Underground Fire	CT.00015331	Fire resistant VCDs	CA.GRV.CCM.97.2.1	Review the VCD Construction and Installation Standards to ensure they are up to date and meet the required standard.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
431	Fire within infrastructure	TE 00000248	Underground Fire	CT.00015331	Fire resistant VCDs	CA.GRV.CCM.97.2.2	Review any completed VCD Audit Check List for Goaf Seals completed in the last month to verify that the key requirements have been met and appropriate Q.A documents are completed.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
432	Fire within infrastructure	TE 00000248	Underground Fire	CT.00015331	Fire resistant VCDs	CA.GRV.CCM.97.2.3	3. Review inspections records of goaf seals that have been inspected in the last month to verify that any findings have been actioned appropriately.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
433	Fire within infrastructure	TE 00000248	Underground Fire	CT.00015331	Fire resistant VCDs	CA.GRV.CCM.97.2.4	Utilising the VCD Audit Check List, inspect at least two VCD's to verify compliance with the standards installation and ongoing maintenance requirements.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
434	Falling into Moving Equipment	TE 00000256	Caught by Moving/Rotating Parts	CT.00016552	Guards	CA.GRV.CCM.98.2.1	Select a conveyor from either the Longwall, Development, Surface processes and verify equipment compliance against AS4024	Bi-Annually	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
435	Falling into Moving Equipment	TE 00000256	Caught by Moving/Rotating Parts	CT.00016544	Pre-Start Alarms on Conveyors, Cont Miners, Shuttle Cars, Feeder Breaker, Longwall Shearer, Shields, AFC, BSL	CA.GRV.CCM.99.2.1	Select a conveyor from either the Longwall, Development, Surface processes and verify pre-start alarms are fitted, functional and included in Pre-Start Checks	Bi-Annually	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
436	Falling into Moving Equipment	TE 00000256	Caught by Moving/Rotating Parts	CT.00016535	Design & Selection of Equipment [including guards & barriers]	CA.GRV.CCM.100.2.1	1. Select one piece of plant and ensure Site Introduction dossier includes Design risk assessment, operational & maintenance risk assessment, compliance against relevant standards for guarding & interlocks etc. maintenance schedule includes regular inspection and audits of guards & barriers	Bi-Annually	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
437	Fluid Injection Injury	TE 00000261	High Pressure Fluid Injection	CT.00016410	MDG41 Compliance including Hose Specifications, Pulse Testing, Pressure Testing, Maintenance	CA.GRV.CCM.101.2.1	1. Complete an audit on 1 piece of equipment from the Longwall, 1 piece of equipment from a Development panel and 1 piece of mobile plant. Verify the following: - In-truction to Site dossier has been compiled with, / Review maintenance records and inspections sheets to validate that regular services are taking place and that any defects have been addressed	Bi-Annually	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
438	Fluid Injection Injury	TE 00000261	High Pressure Fluid Injection	CT.00016410	MDG41 Compliance including Hose Specifications, Pulse Testing, Pressure Testing, Maintenance	CA.GRV.CCM.101.2.3	All hoses manufactured by external contractors / All hoses supplied with compliance certificates / Tethers / Whip checks / Staple retention / Clamps / hose restraints / e-Stops of each shield to dump flows / Self-centering hydraulic valves spindles	Bi-Annually	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
439	Fluid Injection Injury	TE 00000261	High Pressure Fluid Injection	CT.00016424	6 Step Isolation Process	CA.GRV.CCM.102.2.2	Perform an in-field inspection of maintenance or servicing activities being performed on a hydraulic circuit. / Verify that the correct isolations have been applied to control all energies / Verify that the operator/operators have considered the risk of high pressure fluid injection during the isolation process	Bi-Annually	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
440	Fluid Injection Injury	TE 00000261	High Pressure Fluid Injection	CT.00016418	Nominated Medical Advisers trained in this injury type	CA.GRV.CCM.103.2.1	Submit high pressure fluid injection injury management package to NMA for review to ensure that first response is based on current best practice	Bi-Annually	Paganoni Peter - [REDACTED]	Perks Jeffrey - [REDACTED]
441	Fluid Injection Injury	TE 00000261	High Pressure Fluid Injection	CT.00016414	Dye included in longwall emulsions to assist diagnosis and treatment	CA.GRV.CCM.104.2.1	Audit of supply and maintenance records to confirm dye has been added to hydraulic solutions	Annual	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
442	Immersion	TE 00000260	Drowning	CT.00016899	Control of access points across flowing watercourses - Lockable gates to control access to running / flooding water courses	CA.GRV.CCM.105.2.1	Perform an in-field inspection of Isaac River crossings. Verify that hard lockable barriers are available to prevent unauthorised access during high flow periods or flooding.	Bi-Annually	Bachmann Kate - [REDACTED]	Heap Adam - [REDACTED]
443	Immersion	TE 00000260	Drowning	CT.00016899	Control of access points across flowing watercourses - Lockable gates to control access to running / flooding water courses	CA.GRV.CCM.105.2.2	Ensure depth indicators and associated radio communication signage is in place	Bi-Annually	Bachmann Kate - [REDACTED]	Heap Adam - [REDACTED]
444	Immersion	TE 00000260	Drowning	CT.00016899	Control of access points across flowing watercourses - Lockable gates to control access to running / flooding water courses	CA.GRV.CCM.105.2.3	Validate that the real time monitoring equipment for river water levels is operational, located in the correct areas and calibrated.	Bi-Annually	Bachmann Kate - [REDACTED]	Heap Adam - [REDACTED]
445	Immersion	TE 00000260	Drowning	CT.00016839	Drill pit exclusion zones - Exclusion zones are extended based on these inspections	CA.GRV.CCM.106.2.1	Complete and in field audit of a drill site (separate drill site each quarter) and validate that exclusion zones and barricades are in place around the drill pits.	Quarterly	Bachmann Kate - [REDACTED]	Mulcahy Bevin - [REDACTED]
446	Immersion	TE 00000260	Drowning	CT.00016839	Drill pit exclusion zones - Exclusion zones are extended based on these inspections	CA.GRV.CCM.106.2.2	Validate that scheduled inspections of the drill pits are taking place which consider pit wall integrity and spacing of exclusion zones.	Quarterly	Bachmann Kate - [REDACTED]	Mulcahy Bevin - [REDACTED]
447	Immersion	TE 00000260	Drowning	CT.00016839	Drill pit exclusion zones - Exclusion zones are extended based on these inspections	CA.GRV.CCM.106.2.3	Verify that drilling additives are being utilized to maintain pit wall integrity where possible.	Quarterly	Bachmann Kate - [REDACTED]	Mulcahy Bevin - [REDACTED]
448	Immersion	TE 00000260	Drowning	CT.00016839	Drill pit exclusion zones - Exclusion zones are extended based on these inspections	CA.GRV.CCM.106.2.4	Verify that two meter levy banks of natural ground have been established between drill pits to assist in ground control.	Quarterly	Bachmann Kate - [REDACTED]	Mulcahy Bevin - [REDACTED]
449	Immersion	TE 00000260	Drowning	CT.00016870	Surface dam and sampling point rescue resources - Surface water body locations include provision for PDF, knotted ropes and spotters	CA.GRV.CCM.107.2.1	Perform an in-field audit of the surface dams and sampling points. Verify that the following safety devices are available in the relevant locations: Knotted safety rope / Life buoys / PFD's / Pump floats in the middle of the dams / Fire extinguishers / Relevant warning signage	Quarterly	Bachmann Kate - [REDACTED]	Heap Adam - [REDACTED]
450	Immersion	TE 00000260	Drowning	CT.00016822	UG sum access control - Guard on the sump walls	CA.GRV.CCM.108.2.1	1. Perform an in-field inspection of the UG sumps. For LOM sumps verify the following: Guarding is in place and creates an effective barrier between coal mine workers and the water body / Provision of adequate lighting in and around the sump area	Quarterly	Bachmann Kate - [REDACTED]	Evans Troy - [REDACTED]
451	Immersion	TE 00000260	Drowning	CT.00016822	UG sum access control - Guard on the sump walls	CA.GRV.CCM.108.2.2	Ensure PPE in the form of a PFD or life ring is available and at a suitable location in relation to the sump / Ensure that a chain barrier is erected and in place at the sump entrance	Quarterly	Bachmann Kate - [REDACTED]	Evans Troy - [REDACTED]
452	Immersion	TE 00000260	Drowning	CT.00016822	UG sum access control - Guard on the sump walls	CA.GRV.CCM.108.2.3	Ensure all relevant warning signage is in place to warn of water body hazards	Quarterly	Bachmann Kate - [REDACTED]	Evans Troy - [REDACTED]
453	Immersion	TE 00000260	Drowning	CT.00016822	UG sum access control - Guard on the sump walls	CA.GRV.CCM.108.2.4	2. For all other sumps, verify that: A chain barrier is erected and in place at the sump entrance / All relevant warning signage is in place to warn CMW's of water body hazards / Provision of adequate lighting in and around the sump area	Quarterly	Bachmann Kate - [REDACTED]	Evans Troy - [REDACTED]



454	Falling Off or Through Elevated Work Areas	TE 00000257	Falling From Height	CT.00015791	Annual structural audit of working at heights equipment	CA.GRV.CCM.109 2.1	Select a sample of working at heights equipment and verify that the annual inspection for structural integrity has been completed (work baskets ,EWP.s etc.)	Annual	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
455	Falling Off or Through Elevated Work Areas	TE 00000257	Falling From Height	CT.00015791	Annual structural audit of working at heights equipment	CA.GRV.CCM.109 2.2	Verify that an annual inspection schedule is in place for the pieces of plant selected for this audit.	Annual	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
456	Falling Off or Through Elevated Work Areas	TE 00000257	Falling From Height	CT.00015803	Working at heights Permit system	CA.GRV.CCM.110 2.1	Select a sample of working at heights permits from the last 6 months and verify that the permit has been completed in accordance with the HMP for working at heights	Bi-Annually	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
457	Falling Off or Through Elevated Work Areas	TE 00000257	Falling From Height	CT.00015803	Working at heights Permit system	CA.GRV.CCM.110 2.2	Verify that the following requirements of the Permit have been completed: / The Permit has been signed off by all of the relevant stakeholders / Verify that fall recovery plans have been developed for each of the working at heights permits	Bi-Annually	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
458	Falling Off or Through Elevated Work Areas	TE 00000257	Falling From Height	CT.00015803	Working at heights Permit system	CA.GRV.CCM.110 2.3	Review the underpinning risk assessment completed for the task and verify that robust controls have been identified to control the risk of falling from heights / Verify that the correct working at heights equipment has been used for the task	Bi-Annually	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
459	Falling Off or Through Elevated Work Areas	TE 00000257	Falling From Height	CT.00015788	Working at heights equipment and inspections - Maintenance and Inspection process (RGBY)	CA.GRV.CCM.111 2.1	Validate that the RGBY system is in place and working effectively: / Verify that a communication strategy is in place for colour changes and inspection dates of working at heights equipment	Bi-Annually	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
460	Falling Off or Through Elevated Work Areas	TE 00000257	Falling From Height	CT.00015788	Working at heights equipment and inspections - Maintenance and Inspection process (RGBY)	CA.GRV.CCM.111 2.2	Review an inspection report completed on the on the working at heights equipment and verify that faulty or defective equipment is being identified and removed from service	Bi-Annually	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
461	Falling Off or Through Elevated Work Areas	TE 00000257	Falling From Height	CT.00015788	Working at heights equipment and inspections - Maintenance and Inspection process (RGBY)	CA.GRV.CCM.111 2.3	Perform an infield audit of working at heights equipment. Verify that the colour tags are within the correct date range and that the equipment is being sorted and cared for correctly	Bi-Annually	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
462	Asphyxiation and/or Poisoning [Oxygen Deficient; Carbon Monoxide-Dioxide Rich; Smoke]	TE 00000242	Confined Space	CT.00015590	Atmosphere monitoring tests prior to entry	CA.GRV.CCM.116 2.1	Check the calibration dates on the atmospheric monitors which are used in confined spaces and ensure that the monitor is in compliance with the inspection date.	Quarterly	Paganoni Peter - [REDACTED]	Bailey Ian - [REDACTED]
463	Asphyxiation and/or Poisoning [Oxygen Deficient; Carbon Monoxide-Dioxide Rich; Smoke]	TE 00000242	Confined Space	CT.00015590	Atmosphere monitoring tests prior to entry	CA.GRV.CCM.116 2.2	Complete a challenge test on the monitors and ensure that each of the monitors and alarms are triggering at the correct set points	Quarterly	Paganoni Peter - [REDACTED]	Bailey Ian - [REDACTED]
464	Asphyxiation and/or Poisoning [Oxygen Deficient; Carbon Monoxide-Dioxide Rich; Smoke]	TE 00000242	Confined Space	CT.00015590	Atmosphere monitoring tests prior to entry	CA.GRV.CCM.116 2.4	Verify regular challenge testing is being carried out on the monitors	Quarterly	Paganoni Peter - [REDACTED]	Bailey Ian - [REDACTED]
465	Asphyxiation and/or Poisoning [Oxygen Deficient; Carbon Monoxide-Dioxide Rich; Smoke]	TE 00000242	Confined Space	CT.00015547	Confined space permit system with stop gates when mandatory requirements are not met	CA.GRV.CCM.117 2.1	Review a representative sample of completed confined space permits from the last 6 months (include UG confined space permits if UG confined space work has occurred in the last 6 months) and verify the following: - Ensure that all sections of the permit have been completed correctly	Bi-Annually	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
466	Asphyxiation and/or Poisoning [Oxygen Deficient; Carbon Monoxide-Dioxide Rich; Smoke]	TE 00000242	Confined Space	CT.00015547	Confined space permit system with stop gates when mandatory requirements are not met	CA.GRV.CCM.117 2.2	Verify that the permit has been signed off by the relevant personnel (Permit Holder and Permit Issuer)	Bi-Annually	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
467	Asphyxiation and/or Poisoning [Oxygen Deficient; Carbon Monoxide-Dioxide Rich; Smoke]	TE 00000242	Confined Space	CT.00015547	Confined space permit system with stop gates when mandatory requirements are not met	CA.GRV.CCM.117 2.3	Verify that the CMW's signed on and off the permit	Bi-Annually	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
468	Asphyxiation and/or Poisoning [Oxygen Deficient; Carbon Monoxide-Dioxide Rich; Smoke]	TE 00000242	Confined Space	CT.00015547	Confined space permit system with stop gates when mandatory requirements are not met	CA.GRV.CCM.117 2.4	Verify that a rescue plan was completed, is attached to the permit and effective for the task	Bi-Annually	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
469	Loads Falling	TE 00000252	Suspended Loads falling	CT.00016006	Annual Crane Safety Certification	CA.GRV.CCM.118 2.1	Complete an audit on a sample of a sample of crane certificates to ensure that they meet the compliance requirements	Annual	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
470	Loads Falling	TE 00000252	Suspended Loads falling	CT.00015907	Exclusion Zones	CA.GRV.CCM.119 2.1	Attend a planned Lift and ensure all fall protection no-go zones and barricades are in place	Bi-Annually	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
471	Loads Falling	TE 00000252	Suspended Loads falling	CT.00015907	Exclusion Zones	CA.GRV.CCM.119 2.2	Verify that a risk assessment and lift plan have been completed for the lift and validate that all of the identified controls are in place and effective	Bi-Annually	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
472	Loads Falling	TE 00000252	Suspended Loads falling	CT.00015997	Fit-for-Purpose Design & Selection of Equipment	CA.GRV.CCM.120 2.1	Complete an infield audit to ensure that a relevant sample of lifting equipment is rated, certified and maintained in Fit-for-Purpose condition. Validate the following requirements: - Select 4 different pieces of lifting gear in different underground locations verify the tag is the correct color for the period. Take the serial number off the lifting gear and verify the check in the register	Annual	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
473	Loads Falling	TE 00000252	Suspended Loads falling	CT.00015997	Fit-for-Purpose Design & Selection of Equipment	CA.GRV.CCM.120 2.2	Select 6 different items of lifting equipment in the store .Verify that the equipment purchased for site is specified to meet the AS	Annual	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
474	Loads Falling	TE 00000252	Suspended Loads falling	CT.00015929	Engineering Calculations & General Arrangement Drawings	CA.GRV.CCM.121 2.1	Review a sample of Inspection & Testing Reports for the previous quarter to ensure compliance with site requirements	Bi-Annually	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
475	Loads Falling	TE 00000252	Suspended Loads falling	CT.00015929	Engineering Calculations & General Arrangement Drawings	CA.GRV.CCM.121 2.2	Complete an Audit of a sample of Pre-Lift Inspection Sheets for the previous Quarter to ensure that they have been completed and signed off	Bi-Annually	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
476	All structures	TE 00000262	Structural Failure	CT.00015613	Design and Selection of Fit-For-Purpose scaffold	CA.GRV.CCM.122 2.1	Perform an infield inspection on scaffolding that is being erected or has already been installed. Validate compliance against all of the scaffolding controls identified in the Working at Heights Management Plan and/or structural integrity Management Plan	Quarterly	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
477	All structures	TE 00000262	Structural Failure	CT.00015620	PLC programming tested during commissioning	CA.GRV.CCM.123 2.1	Audit of 3 Introduction to Site dossiers to ensure PLC Code checks have been conducted during commissioning	Annual	Paganoni Peter - [REDACTED]	Bailey Ian - [REDACTED]
478	All structures	TE 00000262	Structural Failure	CT.00015641	Regular structural audits	CA.GRV.CCM.125 2.1	Audit of Work Management System, Reports and Audit Schedules to ensure required Regular Structural Audits are being conducted	Annual	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
479	All structures	TE 00000262	Structural Failure	CT.00015624	Detailed specification of supplied structural components	CA.GRV.CCM.126 2.1	Audit sample of Structural Component Order Forms to verify detailed specifications are included in Order	Bi-Annually	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
480	All structures	TE 00000262	Structural Failure	CT.00015624	Detailed specification of supplied structural components	CA.GRV.CCM.126 2.2	Audit sample of Client Acceptance sheets to verify structural components are supplied to specification	Bi-Annually	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
481	Collapse of Trench Wall	TE 00000258	Collapse of Trench Wall	CT.00016483	Exclusion zones for plant and equipment	CA.GRV.CCM.128 2.1	Complete a visual inspection of open trench locations and confirm that exclusion zones are in place as per site procedures for plant and equipment	Quarterly	Paganoni Peter - [REDACTED]	Britton Mick - [REDACTED]
482	Collapse of Trench Wall	TE 00000258	Collapse of Trench Wall	CT.00016483	Exclusion zones for plant and equipment	CA.GRV.CCM.128 2.2	Validate that exclusion zones have been established and communicated to coal mine workers	Quarterly	Paganoni Peter - [REDACTED]	Britton Mick - [REDACTED]
483	Collapse of Trench Wall	TE 00000258	Collapse of Trench Wall	CT.00016489	Permit to disturb process / Excavation permit	CA.GRV.CCM.129 2.1	Select a Permit to disturb which includes trench excavations and validate the following: / Verify that the permit has been signed off by all relevant stakeholders	Quarterly	Paganoni Peter - [REDACTED]	Britton Mick - [REDACTED]
484	Collapse of Trench Wall	TE 00000258	Collapse of Trench Wall	CT.00016489	Permit to disturb process / Excavation permit	CA.GRV.CCM.129 2.2	Verify that a risk assessment has been completed to underpin the excavation works which identifies controls regarding trench collapse	Quarterly	Paganoni Peter - [REDACTED]	Britton Mick - [REDACTED]
485	Collapse of Trench Wall	TE 00000258	Collapse of Trench Wall	CT.00016489	Permit to disturb process / Excavation permit	CA.GRV.CCM.129 2.3	Verify that the controls listed in the permit and the risk assessment are in place and effective	Quarterly	Paganoni Peter - [REDACTED]	Britton Mick - [REDACTED]
486	Collapse of Trench Wall	TE 00000258	Collapse of Trench Wall	CT.00016461	Extraction equipment	CA.GRV.CCM.130 2.1	Ensure that extracation equipment and resources are stored in the correct locations and are readily available	Monthly	Paganoni Peter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
487	Collapse of Trench Wall	TE 00000258	Collapse of Trench Wall	CT.00016461	Extraction equipment	CA.GRV.CCM.130 2.2	Inspect a sample of extracation equipment for recoveries and verify that it is fit for purpose and is regularly inspected	Monthly	Paganoni Peter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
488	Tyre Burst	TE 00000259	Tyre Burst/Pyrolysis	CT.00016615	Tyre pressure monitoring systems for truck/earth moving hualage fleets	CA.GRV.CCM.131 2.1	Perform an infield audit of vehicles in operation on site and validate the following: / Ensure that all required vehicles have TPMS fitted	Annual	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
489	Tyre Burst	TE 00000259	Tyre Burst/Pyrolysis	CT.00016615	Tyre pressure monitoring systems for truck/earth moving hualage fleets	CA.GRV.CCM.131 2.2	Verify that the TPMS is operational and fit for purpose	Annual	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
490	Tyre Burst	TE 00000259	Tyre Burst/Pyrolysis	CT.00016615	Tyre pressure monitoring systems for truck/earth moving hualage fleets	CA.GRV.CCM.131 2.3	Interview an operator and test their knowledge on the operational use of the TPMS	Annual	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
491	Tyre Burst	TE 00000259	Tyre Burst/Pyrolysis	CT.00016615	Tyre pressure monitoring systems for truck/earth moving hualage fleets	CA.GRV.CCM.131 2.4	Review the maintenance schedule and validate that the the system is calibrated and that the scheduled services on the system have occurred	Annual	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
492	Tyre Burst	TE 00000259	Tyre Burst/Pyrolysis	CT.00016639	QA audits on approved tyre service provider (audits of competencies, facilities, equipment etc)	CA.GRV.CCM.132 2.1	Perform an offsite audit on the approved tyre service provider to validate the following requirements: - Verify that the tradesman hold the relevant RII competencies to perform tyre related tasks	Annual	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
493	Tyre Burst	TE 00000259	Tyre Burst/Pyrolysis	CT.00016639	QA audits on approved tyre service provider (audits of competencies, facilities, equipment etc)	CA.GRV.CCM.132 2.2	Verify that the procedures held by the service provider are current and aligned to the requirements of AS 4457	Annual	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
494	Tyre Burst	TE 00000259	Tyre Burst/Pyrolysis	CT.00016639	QA audits on approved tyre service provider (audits of competencies, facilities, equipment etc)	CA.GRV.CCM.132 2.3	Ensure the relevant procedures include integrity testing	Annual	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
495	Tyre Burst	TE 00000259	Tyre Burst/Pyrolysis	CT.00016639	QA audits on approved tyre service provider (audits of competencies, facilities, equipment etc)	CA.GRV.CCM.132 2.4	Perform an inspection on the service providers equipment to ensure that it is fit for purpose and in good condition. This includes NATA calibrated master guages.	Annual	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
496	Tyre Burst	TE 00000259	Tyre Burst/Pyrolysis	CT.00016626	Tyre and rim register provides information on integrity of tyres and rims	CA.GRV.CCM.133 2.1	Select a sample of contractor and Anglo owned vehicles and check the following requirements: - Verify that the wheels fitted to the vehicles are on the rim register and that records are accessible and up to date	Annual	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
497	Tyre Burst	TE 00000259	Tyre Burst/Pyrolysis	CT.00016626	Tyre and rim register provides information on integrity of tyres and rims	CA.GRV.CCM.133 2.2	Verify any maintenance of tyre and rim assemblies on the selected piece of equipment have been recorded	Annual	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
498	Tyre Burst	TE 00000259	Tyre Burst/Pyrolysis	CT.00016576	Foam filled tyres for UG fleet	CA.GRV.CCM.134 2.1	Audit of tyre supplied certificates to ensure that All underground tyres are foam filled	Annual	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]

499	Failure of the ventilation system	TE 00000271	Failure of the ventilation system	CT.00015532	Assessment of auxiliary fan operation and mitigation of recirculation	CA.GRV.CCM.135.2.1	Review at least three of the most recent Monthly Ventilation Reports to verify that there was sufficient ventilation in each panel to provide the minimum 130% above auxiliary fan capacity. (NB VIV setting at time of survey)	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
500	Failure of the ventilation system	TE 00000271	Failure of the ventilation system	CT.00015532	Assessment of auxiliary fan operation and mitigation of recirculation	CA.GRV.CCM.135.2.2	UG inspection of auxiliary fan configurations in a panel and integrity of outbye VCD's to prevent recirculation.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
501	Failure of the ventilation system	TE 00000271	Failure of the ventilation system	CT.00015529	Engineering Modelling of Ventilation networks	CA.GRV.CCM.136.2.1	Review measured PQ values against applicable ventilation model and determine whether within acceptable limits. / Conduct and compare with third party PQ survey.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
502	Failure of the ventilation system	TE 00000271	Failure of the ventilation system	CT.00015534	Auto-shut down of fans based on electronic vibration and temperature monitoring of bearings, motors and brake.	CA.GRV.CCM.137.2.1	Check temperature and vibration levels within CITECT/PLC are correctly set. / Review long term trends for anomalies.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
503	Failure of the ventilation system	TE 00000271	Failure of the ventilation system	CT.00015534	Auto-shut down of fans based on electronic vibration and temperature monitoring of bearings, motors and brake.	CA.GRV.CCM.137.2.2	Check conditioning monitoring has been undertaken of the fan by the Condition Monitoring Engineer and actions have been implemented for any identified defects / issues.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
504	Failure of the ventilation system	TE 00000271	Failure of the ventilation system	CT.00015534	Auto-shut down of fans based on electronic vibration and temperature monitoring of bearings, motors and brake.	CA.GRV.CCM.137.2.3	Verify that maintenance inspections have been conducted monthly on the fan and any identified actions required have been implemented.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
505	Failure of the ventilation system	TE 00000271	Failure of the ventilation system	CT.00015533	Effective Earth Bonding	CA.GRV.CCM.138.2.1	Review yearly HT Protection Reports for compliance	Annual	Paganoni Peter - [REDACTED]	Bailey Ian - [REDACTED]
506	Failure of the ventilation system	TE 00000271	Failure of the ventilation system	CT.00015533	Effective Earth Bonding	CA.GRV.CCM.138.2.2	Physically inspect sample of installations to verify that bonding is in place as per site requirements. (Ventilation fans, selected surface to seam cased borehole and or goaf well.	Annual	Paganoni Peter - [REDACTED]	Bailey Ian - [REDACTED]
507	Failure of the ventilation system	TE 00000271	Failure of the ventilation system	CT.00015533	Effective Earth Bonding	CA.GRV.CCM.138.2.3	Ensure licensing of Lightning Tracking system is current.	Annual	Paganoni Peter - [REDACTED]	Bailey Ian - [REDACTED]
508	Failure of the ventilation system	TE 00000271	Failure of the ventilation system	CT.00015533	Effective Earth Bonding	CA.GRV.CCM.138.2.4	Ensure Lightning Tracking System is functional (interview Control Room Operators)	Annual	Paganoni Peter - [REDACTED]	Bailey Ian - [REDACTED]
509	Failure of the ventilation system	TE 00000271	Failure of the ventilation system	CT.00015531	Ventilation network modelling and design	CA.GRV.CCM.139.2.1	Verify that Pressure Quantity Surveys are conducted and recorded on the monthly Ventilation report.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
510	Failure of the ventilation system	TE 00000271	Failure of the ventilation system	CT.00015531	Ventilation network modelling and design	CA.GRV.CCM.139.2.2	Verify that the Ventilation Officer is implementing appropriate actions as a result of the Pressure Quantity Survey results where required.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
511	Failure of the ventilation system	TE 00000271	Failure of the ventilation system	CT.00015531	Ventilation network modelling and design	CA.GRV.CCM.139.2.3	If, as a result of the pressure quantity surveys, changes are required to the Ventilation Model, verify that the Ventilation Model has been updated	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
512	Failure of the ventilation system	TE 00000271	Failure of the ventilation system	CT.00015531	Ventilation network modelling and design	CA.GRV.CCM.139.2.4	Review the Ventsim Model to verify that it continues to be effective and does add value.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
513	Failure of the ventilation system	TE 00000271	Failure of the ventilation system	CT.00015531	Ventilation network modelling and design	CA.GRV.CCM.139.2.5	Review that the latest version of Ventsim is installed on the Ventilation Officer's computer	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
514	Failure of the ventilation system	TE 00000271	Failure of the ventilation system	CT.00015531	Ventilation network modelling and design	CA.GRV.CCM.139.2.6	Verify that the Ventilation Officer is using the Ventsim Model to model ventilation airflows, velocities and various pressures in all areas of the mine	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
515	Failure of the ventilation system	TE 00000271	Failure of the ventilation system	CT.00015531	Ventilation network modelling and design	CA.GRV.CCM.139.2.7	Verify that Ventsim modelling is being conducted to predict future operating requirements of the Mine	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
516	Failure of the ventilation system	TE 00000271	Failure of the ventilation system	CT.00015531	Ventilation network modelling and design	CA.GRV.CCM.139.2.8	Verify that Ventsim modelling is giving consideration to contaminant spread routines.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
517	Failure of the ventilation system	TE 00000271	Failure of the ventilation system	CT.00015531	Ventilation network modelling and design	CA.GRV.CCM.139.2.9	Review at least three of the most recent Monthly Ventilation Reports to verify that the results of the relevant gas emission surveys are included, and consideration is given to those outcomes, as and when appropriate.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
518	Failure of the ventilation system	TE 00000271	Failure of the ventilation system	CT.00015535	Separation of conveyor roadways from other intake roadways	CA.GRV.CCM.140.2.1	Check the Mine Plan to verify that the primary Escapeway is separated from all other roadways (as far as practicable).	Annual	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
519	Failure of the ventilation system	TE 00000271	Failure of the ventilation system	CT.00015535	Separation of conveyor roadways from other intake roadways	CA.GRV.CCM.140.2.2	Check the design and UG integrity of belt separation from other intake airways.	Annual	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
520	Failure of the ventilation system	TE 00000271	Failure of the ventilation system	CT.00015530	Engineering design of GAG docking Port, Portal Seals, Mechanically Geared Winder & Operating Mechanisms	CA.GRV.CCM.141.2.1	Physically inspect the portal infrastructure emergency fire doors and validate that there is no physical damage to the geared winder system.	Annual	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
521	Failure of the ventilation system	TE 00000271	Failure of the ventilation system	CT.00015530	Engineering design of GAG docking Port, Portal Seals, Mechanically Geared Winder & Operating Mechanisms	CA.GRV.CCM.141.2.2	Review previous work order inspection for emergency fire doors and validate that: / The previous testing of the doors was successful and that any issues or non-compliances have been rectified, actioned and closed out.	Annual	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
522	Failure of the ventilation system	TE 00000271	Failure of the ventilation system	CT.00015530	Engineering design of GAG docking Port, Portal Seals, Mechanically Geared Winder & Operating Mechanisms	CA.GRV.CCM.141.2.3	All/any servicing works have been completed to standard	Annual	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
523	Failure of the ventilation system	TE 00000271	Failure of the ventilation system	CT.00015530	Engineering design of GAG docking Port, Portal Seals, Mechanically Geared Winder & Operating Mechanisms	CA.GRV.CCM.141.2.4	All identified damage such as fraying of ropes, winch assembly damage; corrosion and or sheave block damage has been identified and rectified.	Annual	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
524	Failure of the ventilation system	TE 00000271	Failure of the ventilation system	CT.00015530	Engineering design of GAG docking Port, Portal Seals, Mechanically Geared Winder & Operating Mechanisms	CA.GRV.CCM.141.2.5	Physically inspect access routes to the geared winder to ensure the path it NOT is the blast line	Annual	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
525	Failure of the ventilation system	TE 00000271	Failure of the ventilation system	CT.00015530	Engineering design of GAG docking Port, Portal Seals, Mechanically Geared Winder & Operating Mechanisms	CA.GRV.CCM.141.2.6	Review a representative sample of the 3 monthly fire door greasing work order and validate that: / All identified damage or non-compliances that have been identified are actioned and rectified.	Annual	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
526	Failure of the ventilation system	TE 00000271	Failure of the ventilation system	CT.00015530	Engineering design of GAG docking Port, Portal Seals, Mechanically Geared Winder & Operating Mechanisms	CA.GRV.CCM.141.2.7	Physically inspect the GAG Docking Port to ensure it remains compliant and Fit-for-Purpose	Annual	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
527	Failure of the ventilation system	TE 00000271	Failure of the ventilation system	CT.00015530	Engineering design of GAG docking Port, Portal Seals, Mechanically Geared Winder & Operating Mechanisms	CA.GRV.CCM.141.2.8	Validate that the GAG Docking port is compliant, Fit-for-Purpose and in working condition.	Annual	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
528	Failure of the ventilation system	TE 00000271	Failure of the ventilation system	CT.00015530	Engineering design of GAG docking Port, Portal Seals, Mechanically Geared Winder & Operating Mechanisms	CA.GRV.CCM.141.2.9	Review a sample of previous work orders for the Gag Docking Port and ensure that any identified issues have been actioned and rectified.	Annual	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
529	Failure of the ventilation system	TE 00000271	Failure of the ventilation system	CT.00015530	Engineering design of GAG docking Port, Portal Seals, Mechanically Geared Winder & Operating Mechanisms	CA.GRV.CCM.141.2.10	Physically inspect the Gas sampling draw points located on the portal infrastructure	Annual	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
530	Failure of the ventilation system	TE 00000271	Failure of the ventilation system	CT.00015530	Engineering design of GAG docking Port, Portal Seals, Mechanically Geared Winder & Operating Mechanisms	CA.GRV.CCM.141.2.11	Validate that the draw points are, compliant, Fit-for-Purpose and in working condition.	Annual	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
531	Failure of the ventilation system	TE 00000271	Failure of the ventilation system	CT.00015530	Engineering design of GAG docking Port, Portal Seals, Mechanically Geared Winder & Operating Mechanisms	CA.GRV.CCM.141.2.12	Review a sample of previous work orders for the gas sampling draw points and ensure that any identified issues have been actioned and rectified.	Annual	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
532	Fluid Injection Injury	TE 00000261	High Pressure Fluid Injection	CT.00016410	MDG41 Compliance including Hose Specifications, Pulse Testing, Pressure Testing, Maintenance	CA.GRV.CCM.101.2.2	Audit equipment and confirm ongoing compliance to the requirements of MDG41, including: / Maintenance Strategies for hose replacement / Burst Protection Sheathings / Defined 'High Risk Areas' and consequent additional controls included in HMP	Bi-Annually	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
533	Roof fall	TE 00000245	Strata Failure	CT.00017813	Permit to Mine	CA.GRV.CCM.142.2.1	Observe an actual PTM meeting to validate that it functions correctly, including the following requirements. Did the correct attendees actually attend the meeting.	Monthly	Niehaus Wouter - [REDACTED]	Mohr Logan - [REDACTED]
534	Roof fall	TE 00000245	Strata Failure	CT.00017813	Permit to Mine	CA.GRV.CCM.142.2.2	Was the correct information tabled and discussed openly and any points of contention actively worked through to the satisfaction of all	Monthly	Niehaus Wouter - [REDACTED]	Mohr Logan - [REDACTED]
535	Roof fall	TE 00000245	Strata Failure	CT.00017813	Permit to Mine	CA.GRV.CCM.142.2.3	Does the PTM include the correct Development sequencing	Monthly	Niehaus Wouter - [REDACTED]	Mohr Logan - [REDACTED]
536	Roof fall	TE 00000245	Strata Failure	CT.00017813	Permit to Mine	CA.GRV.CCM.142.2.4	Has the PTM been signed off by all required stakeholders	Monthly	Niehaus Wouter - [REDACTED]	Mohr Logan - [REDACTED]
537	Roof fall	TE 00000245	Strata Failure	CT.00017812	Priority Critical Control -Verify independent report of the Permit to Mine	CA.GRV.CCM.143.2.1	Review the independent report of the permit to Mine completed by the Safety Superintendent as part of the monthly Critical Controls. Compare this report against the relevant PTM and verify the following. Identify if there are any discrepancies between the independent report and the PTM	Monthly	Niehaus Wouter - [REDACTED]	Perks Jeffrey - [REDACTED]
538	Roof fall	TE 00000245	Strata Failure	CT.00017812	Priority Critical Control -Verify independent report of the Permit to Mine	CA.GRV.CCM.143.2.2	For areas where there are inconsistencies in this documentation investigate with both the Safety Superintendent and the TSM to validate actual status and record according to findings.	Monthly	Niehaus Wouter - [REDACTED]	Perks Jeffrey - [REDACTED]
539	Roof fall	TE 00000245	Strata Failure	CT.00017812	Priority Critical Control -Verify independent report of the Permit to Mine	CA.GRV.CCM.143.2.3	Consult with the UMM to determine appropriate corrective actions for differences in the reports	Monthly	Niehaus Wouter - [REDACTED]	Perks Jeffrey - [REDACTED]
540	Roof fall	TE 00000245	Strata Failure	CT.00017812	Priority Critical Control -Verify independent report of the Permit to Mine	CA.GRV.CCM.143.2.4	For non compliances ensure a High Potential Hazard report is raised and remedial actions have implemented to address any non-compliances	Monthly	Niehaus Wouter - [REDACTED]	Perks Jeffrey - [REDACTED]
541	Roof fall	TE 00000245	Strata Failure	CT.00017811	Priority Critical Control - Validate that the assurance process for the Permit to Mine is in place and Effective.	CA.GRV.CCM.144.2.1	Validate that the assurance process for the Permit to Mine is in place and working effectively.	Bi-Annually	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
542	Roof fall	TE 00000245	Strata Failure	CT.00017811	Priority Critical Control - Validate that the assurance process for the Permit to Mine is in place and Effective.	CA.GRV.CCM.144.2.2	Review the PTM Assurance Reports completed by the S&SD Manager in the previous quarter and verify the following. Validate that any differences in the reports have been discussed and documented by the S&SD Supt, S&SD Manager and the TSM and discrepancies rectified.	Bi-Annually	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
543	Roof fall	TE 00000245	Strata Failure	CT.00017811	Priority Critical Control - Validate that the assurance process for the Permit to Mine is in place and Effective.	CA.GRV.CCM.144.2.3	Verify that any non-compliances have remedial actions assigned	Bi-Annually	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
544	Contact with live conductors	TE 00000253	Electrocution	CT.00016706	MP - Live Testing	CA.GRV.CCM.145.1.1	Review Arc Flash Assessment and confirm update distances are as required.	Annual	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
545	Contact with live conductors	TE 00000253	Electrocution	CT.00016706	MP - Live Testing	CA.GRV.CCM.145.1.2	Perform a Targetted VFL to validate controls are in place.	Annual	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
546	Contact with live conductors	TE 00000253	Electrocution	CT.00016757	Commissioning documents for electrical infrastructure	CA.GRV.CCM.146.1.1	EEM to sample 15% of electrical installation inspection to confirm compliant to requirements and provide report of same.	Annual	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
547	Gas / Hybrid Explosion	TE 00000249	Explosion	CT.00015254	Back-up diesel / electric generator	CA.GRV.CCM.147.1.1	Review the last 6 x monthly work orders to verify that the Surface Back-Up Diesel Generator is being inspected regularly for condition and serviceability.	Bi-Annually	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
548	Gas / Hybrid Explosion	TE 00000249	Explosion	CT.00015254	Back-up diesel / electric generator	CA.GRV.CCM.147.1.2	Conduct a physical inspection of the back-up diesel generator to verify that oil, water and fuel are at correct levels; perform prestart checks; test start and run diesel generator; and test electrical switching and outputs operate as designed.	Bi-Annually	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
549	Gas / Hybrid Explosion	TE 00000249	Explosion	CT.00015161	Restricted Use of Explosive Power Tools at Grosvenor	CA.GRV.CCM.148.1.1	Review Prohibited Items / Contraband schedule to ensure Explosive Power Tools remain prohibited from underground.	Annual	Niehaus Wouter - [REDACTED]	Bailey Ian - [REDACTED]
550	Gas / Hybrid Explosion	TE 00000249	Explosion	CT.00015229	Design, installation & maintenance of VCDs	CA.GRV.CCM.149.1.1	Review the VCD Construction and Installation Standards to ensure they are up to date and meet the required standard.	Annual	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
551	Gas / Hybrid Explosion	TE 00000249	Explosion	CT.00015229	Design, installation & maintenance of VCDs	CA.GRV.CCM.149.1.2	Review any completed VCD Audit Check List for Goaf Seals completed in the last month to verify that the key requirements have been met.	Annual	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]

552	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015229	Design, installation & maintenance of VCDs	CA.GRV.CCM.149.1.3	Review inspections records of goaf seals that have been inspected in the last month to verify that any findings have been actioned appropriately.	Annual	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
553	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015229	Design, installation & maintenance of VCDs	CA.GRV.CCM.149.1.4	Utilising the VCD Audit Check List, inspect at least two VCD's to verify compliance with the standards installation and ongoing maintenance requirements.	Annual	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
554	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015229	Design, installation & maintenance of VCDs	CA.GRV.CCM.149.1.5	Verify the two VCD's were constructed from non-combustible materials.	Annual	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
555	Gas / Hybrid Explosion	TE 0000249	Explosion	CT.00015203	Incorporated Blast / Pressure Relief doors in fan design	CA.GRV.CCM.150.1.1	Physically inspect Surface Mine Fan infrastructure to verify the Over-Pressure relief and Sealing mechanisms are Fit-for-Purpose and Serviceable	Annual	Paganoni Peter - [REDACTED]	Bailey Ian - [REDACTED]
556	Failure of the critical control system	TE 0000270	Failure of the Critical Control System	CT.00049540	Statutory Work Management System Compliance	CA.GRV.CCM.151.1.1	Review the last months Mechanical statutory work order compliance and validate that all work orders have been completed. Where non-compliances are identified the MEM must have reviewed the non-compliance and implemented a plan to ensure compliance. Validate that any such action has been entered into the Action Database.	Annual	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
557	Failure of the critical control system	TE 0000270	Failure of the Critical Control System	CT.00049540	Statutory Work Management System Compliance	CA.GRV.CCM.151.1.2	Review the last months Electrical statutory work order compliance and validate that all work orders have been completed. Where non-compliances are identified the EEM must have reviewed the non-compliance and implemented a plan to ensure compliance. Validate that any such action has been entered into the Action Database.	Annual	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
558	Failure of the critical control system	TE 0000270	Failure of the Critical Control System	CT.00049540	Statutory Work Management System Compliance	CA.GRV.CCM.151.1.3	Review the last months Safety statutory work order compliance and validate that all work orders have been completed. Where non-compliances are identified the Underground Mine Manager must have reviewed the non-compliance and implemented a plan to ensure compliance. Validate that any such action has been entered into the Action Database.	Annual	Bachmann Kate - [REDACTED]	Perks Jeffrey - [REDACTED]
559	Failure of the gas monitoring system	TE 0000269	Failure of the Gas Monitoring System	CT.00049539	Design and selection of Fit-For-Purpose equipment (visual alarms)	CA.GRV.CCM.152.1.1	Review work orders regarding strobe light on gas sensors testing.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
560	Fluid Injection Injury	TE 0000261	High Pressure Fluid Injection	CT.00016407	Maintenance strategies for equipment	CA.GRV.CCM.153.1.1	Confirm maintenance work orders contain NDT inspection stamped with manufactured Date and Design Life.	Annual	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
561	Release of mine affected water to the receiving environment	TE 0000875	Release of Mine Affected Water	CT.00065601	Dams maintained as per recommendations from RPEQ inspections(CT.00017455 - Engineering design and certification of Dam and incorporated spillways (inc overflow diversion))(CT.00065592 - Water infrastructure (dams, drains, levees) constructed as per RPEQ design	CA.GRV.CCM.154.1.1	Review annual Dam Engineering Inspect Report	Annual	Bachmann Kate - [REDACTED]	Heap Adam - [REDACTED]
562	Release of mine affected water to the receiving environment	TE 0000875	Release of Mine Affected Water	CT.00065601	Dams maintained as per recommendations from RPEQ inspections(CT.00017455 - Engineering design and certification of Dam and incorporated spillways (inc overflow diversion))(CT.00065592 - Water infrastructure (dams, drains, levees) constructed as per RPEQ design	CA.GRV.CCM.154.1.2	Ensure structural engineering assessment is compliant	Annual	Bachmann Kate - [REDACTED]	Heap Adam - [REDACTED]
563	Release of mine affected water to the receiving environment	TE 0000875	Release of Mine Affected Water	CT.00065601	Dams maintained as per recommendations from RPEQ inspections(CT.00017455 - Engineering design and certification of Dam and incorporated spillways (inc overflow diversion))(CT.00065592 - Water infrastructure (dams, drains, levees) constructed as per RPEQ design	CA.GRV.CCM.154.1.3	Verify that the conditions of the spillways has been included in the report and assurance provided that the spillways and water courses have been maintained in accordance with engineering practice.	Annual	Bachmann Kate - [REDACTED]	Heap Adam - [REDACTED]
564	Release of mine affected water to the receiving environment	TE 0000875	Release of Mine Affected Water	CT.00065601	Dams maintained as per recommendations from RPEQ inspections(CT.00017455 - Engineering design and certification of Dam and incorporated spillways (inc overflow diversion))(CT.00065592 - Water infrastructure (dams, drains, levees) constructed as per RPEQ design	CA.GRV.CCM.154.1.4	Validate that any non-compliances or issues that have been raised have been effectively actioned and closed out	Annual	Bachmann Kate - [REDACTED]	Heap Adam - [REDACTED]
565	Ingress into Underground Workings	TE 0000251	Inrush	CT.00017459	Suitably engineered and designed bulkheads and seals installed into existing workings prior to shaft holing existing workings	CA.GRV.CCM.155.1.1	Review the Construction of Rated and Non-Rated Stopping Guidelines to verify that the integrity related criteria is commensurate with the risk, i.e. expected gas, air, and/or, water pressures, overpressures.	Annual	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
566	Ingress into Underground Workings	TE 0000251	Inrush	CT.00017459	Suitably engineered and designed bulkheads and seals installed into existing workings prior to shaft holing existing workings	CA.GRV.CCM.155.1.2	Verify that a risk based process was used to establish the minimum integrity (rating) requirements.	Annual	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
567	Ingress into Underground Workings	TE 0000251	Inrush	CT.00017459	Suitably engineered and designed bulkheads and seals installed into existing workings prior to shaft holing existing workings	CA.GRV.CCM.155.1.3	Review the VCD Audit Check List to verify that all of the relevant prompts have been included and the prompts are risk based.	Annual	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
568	Ingress into Underground Workings	TE 0000251	Inrush	CT.00017459	Suitably engineered and designed bulkheads and seals installed into existing workings prior to shaft holing existing workings	CA.GRV.CCM.155.1.4	Inspect at least three ventilation control devices in different parts of the mine to check for cracks, intrusions, or leaks, and to verify that rating plaques are attached, the appropriate signage is displayed, valves are fitted, tube bundle valves are labelled, and there is no evidence of water, mud or gas accumulations.	Annual	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
569	Ingress into Underground Workings	TE 0000251	Inrush	CT.00017459	Suitably engineered and designed bulkheads and seals installed into existing workings prior to shaft holing existing workings	CA.GRV.CCM.155.1.5	Review at least six completed VCD Audit Checklists to verify that they are being completed as per the schedule and the action items are being addressed within a risk based timeframe.	Annual	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
570	Ingress into Underground Workings	TE 0000251	Inrush	CT.00017459	Suitably engineered and designed bulkheads and seals installed into existing workings prior to shaft holing existing workings	CA.GRV.CCM.155.1.6	Conduct inspection of bulk head integrity.	Annual	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
571	Ingress into Underground Workings	TE 0000251	Inrush	CT.00017459	Suitably engineered and designed bulkheads and seals installed into existing workings prior to shaft holing existing workings	CA.GRV.CCM.155.1.7	Conduct inspection of water level monitoring in pit.	Annual	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
572	Ingress into Underground Workings	TE 0000251	Inrush	CT.00017486	Permit to Mine	CA.GRV.CCM.156.1.1	Verify that all current mining areas have a current Permit to Mine.	Bi-Annually	Niehaus Wouter - [REDACTED]	Goonawardene Ravindu - [REDACTED]
573	Ingress into Underground Workings	TE 0000251	Inrush	CT.00017486	Permit to Mine	CA.GRV.CCM.156.1.2	Verify that the Permit to Mine identifies all potential inrush sources.	Bi-Annually	Niehaus Wouter - [REDACTED]	Goonawardene Ravindu - [REDACTED]
574	Ingress into Underground Workings	TE 0000251	Inrush	CT.00017486	Permit to Mine	CA.GRV.CCM.156.1.3	If Permit to Mine identifies a potential inrush source, verify an SOP has been developed for working near a potential inrush source (specific to the inrush source identified).	Bi-Annually	Niehaus Wouter - [REDACTED]	Goonawardene Ravindu - [REDACTED]
575	Roof fall	TE 0000245	Strata Failure	CT.00049538	Life of Mine Plan	CA.GRV.CCM.158.1.1	Review current Life of Mine Plan and verify there is geotechnical justification (such as calculations, evidence or reports) for LOMP layout and pillar sizing.	Annual	Niehaus Wouter - [REDACTED]	Goonawardene Ravindu - [REDACTED]
576	Roof fall	TE 0000245	Strata Failure	CT.00049538	Life of Mine Plan	CA.GRV.CCM.158.1.2	Review Major Changes to Mine Plan Authorisations (15% of those authorised in last 12 months) to verify that the change has been authorised and process has been followed.	Annual	Niehaus Wouter - [REDACTED]	Goonawardene Ravindu - [REDACTED]
577	All structures	TE 0000262	Structural Failure	CT.00015622	Regular and scheduled Non-Destructive Testing	CA.GRV.CCM.159.1.1	Audit of Work Management System, Reports and Audit Schedules to ensure required Regular NDTs are being conducted (visual inspections)	Annual	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
578	Tyre Burst	TE 0000259	Tyre Burst/Pyrolysis	CT.00016645	Competency requirement for maintenance on tyres - RIISAM210D - Remove and fit wheel assemblies	CA.GRV.CCM.160.1.1	Select a sample of coal mine workers(at least 2) from each crew in the workshop and review their skills to verify they have the correct competencies to change tyre assemblies	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
579	Tyre Burst	TE 0000259	Tyre Burst/Pyrolysis	CT.00016645	Competency requirement for maintenance on tyres - RIISAM210D - Remove and fit wheel assemblies	CA.GRV.CCM.160.1.2	Select a sample of coal mine workers(at least 1) from each surface earthmoving equipment contractor's maintenance team and review their skills to verify they have the correct competencies to change tyre assemblies	Bi-Annually	Niehaus Wouter - [REDACTED]	Hannigan Owen - [REDACTED]
580	Roof fall	TE 0000245	Strata Failure	CT.00017279	Authorisation on Design outcomes [e.g. Support Plans]	CA.GRV.CCM.161.1.1	Confirm that the current products used for strata support meets the minimum technical specifications set out in OMS (e.g. Resin, Steel bolts & plates, cutable dowels & plates)	Quarterly	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
581	Roof fall	TE 0000245	Strata Failure	CT.00017279	Authorisation on Design outcomes [e.g. Support Plans]	CA.GRV.CCM.161.1.2	Confirm that the perishable items used in strata support are managed in accordance with the OEM requirements (e.g. chemical refrigerated and dowels/ plastic plates stored appropriately)	Quarterly	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
582	Roof fall	TE 0000245	Strata Failure	CT.00017279	Authorisation on Design outcomes [e.g. Support Plans]	CA.GRV.CCM.161.1.3	Observe Primary support installation (bolts and cables) and confirm that the installation of strata support meets the site requirements (e.g. spin time, torque settings and hole diameter)	Quarterly	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
583	Roof fall	TE 0000245	Strata Failure	CT.00017279	Authorisation on Design outcomes [e.g. Support Plans]	CA.GRV.CCM.161.1.4	Observe Secondary support installation (bolts & cables) and confirm that the installation of strata support meets the site requirements (e.g. spin time, torque settings and hole diameter)	Quarterly	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
584	Spon Comb in sealed goaf	TE 0000244	Spontaneous Combustion	CT.00017328	Stowage Management Plan	CA.GRV.CCM.162.1.1	Verify the number of permits issued, closed or active for the reporting month. Verify that each of these permits have a permit number and that the duration of the stowage is documented on the permit. Take action for any permits that have exceeded the permit allowance.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
585	Spon Comb in sealed goaf	TE 0000244	Spontaneous Combustion	CT.00017328	Stowage Management Plan	CA.GRV.CCM.162.1.2	Complete an in-field inspection of a stowage site and validate the following: Verify that the stowage site is set up in accordance with the management plan requirements including effective barricading and an information tag outlining the permit number and date of placement.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
586	Spon Comb in sealed goaf	TE 0000244	Spontaneous Combustion	CT.00017328	Stowage Management Plan	CA.GRV.CCM.162.1.3	Verify that stowage locations are listed on the ventilation plan, kept by the V.O. showing areas where permanent and temporary stowage has been placed identifying the roadway in which the stowage has been placed and the date of placement, and whether the stowage is permanent or temporary.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
587	Spon Comb in sealed goaf	TE 0000244	Spontaneous Combustion	CT.00017328	Stowage Management Plan	CA.GRV.CCM.162.1.4	Verify that accessible permanent and temporary stowage areas are being inspected by the ERZ Controller for the zone for elevated gas levels and signs of thermal activity every shift and the location and results entered into the ERZ controller's statutory report.	Bi-Annually	Niehaus Wouter - [REDACTED]	Hearne Hayden - [REDACTED]
588	Roof fall	TE 0000787	Strata Failure - Longwall Face & Gate Roads	CT.00065200	Strata Monitoring TARPs for Cyclic Loading, Cavities, Tell-Tales in Gate-roads,	CA.GRV.CCM.163.1.1	Verify that Tell-tale data is to be recorded on the Tell-tale monitoring book kept underground and that a copy is delivered to the surface at end of each shift.	Quarterly	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
589	Roof fall	TE 0000787	Strata Failure - Longwall Face & Gate Roads	CT.00065200	Strata Monitoring TARPs for Cyclic Loading, Cavities, Tell-Tales in Gate-roads,	CA.GRV.CCM.163.1.2	Verify that the recording of tell-tale data is performed by the panel ERZ controller as per the TARPs and to the following schedule at minimum: All devices within 250m of the face: shifty / All devices in the production district: weekly. / All devices in the panel (gateroad) Quarterly - 3 monthly / All outbye areas: every 3 months.	Quarterly	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
590	Roof fall	TE 0000787	Strata Failure - Longwall Face & Gate Roads	CT.00065200	Strata Monitoring TARPs for Cyclic Loading, Cavities, Tell-Tales in Gate-roads,	CA.GRV.CCM.163.1.3	Verify that work orders are being generated and distributed to the relevant parties for all readings (other than those conducted shifty).	Quarterly	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
591	Roof fall	TE 0000787	Strata Failure - Longwall Face & Gate Roads	CT.00065200	Strata Monitoring TARPs for Cyclic Loading, Cavities, Tell-Tales in Gate-roads,	CA.GRV.CCM.163.1.4	Verify that the monitoring database is kept up to date and any anomalous trends are being recognised, acknowledged and actioned if required.	Quarterly	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]

592	Roof fall	TE 0000787	Strata Failure - Longwall Face & Gate Roads	CT.00065200	Strata Monitoring TARPs for Cyclic Loading, Cavities, Tell-Tales in Gate-roads,	CA.GRV.CCM.163.1.5	Verify that LVA is working effectively and updated to reflect Grosvenor conditions (provide example as evidence).	Quarterly	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
593	Roof fall	TE 0000787	Strata Failure - Longwall Face & Gate Roads	CT.00065200	Strata Monitoring TARPs for Cyclic Loading, Cavities, Tell-Tales in Gate-roads,	CA.GRV.CCM.163.1.6	Verify that LVA CRI (Cavity Risk Index)/ WDI (Weighting Density Index) calibration is being reviewed quarterly for LW101.	Quarterly	Niehaus Wouter - [REDACTED]	Giese Stephen - [REDACTED]
594	Frictional Ignition	TE 0000889	Frictional Ignition	CT.00066171	Minimum ventilation quantity on longwall face of 40m3/sec	CA.GRV.CCM.164.1.1	Review a sample of statutory reports (two for each week of the reporting month). Check the ventilation quantities recorded on the statutory report and verify the following: Verify that the quantities are being recorded three times a shift	Monthly	Niehaus Wouter - [REDACTED]	Agustin John - [REDACTED]
595	Frictional Ignition	TE 0000889	Frictional Ignition	CT.00066171	Minimum ventilation quantity on longwall face of 40m3/sec	CA.GRV.CCM.164.1.2	Verify that correct actions were taken for any ventilation quantities being below 40m3/3	Monthly	Niehaus Wouter - [REDACTED]	Agustin John - [REDACTED]
596	Frictional Ignition	TE 0000889	Frictional Ignition	CT.00066171	Minimum ventilation quantity on longwall face of 40m3/sec	CA.GRV.CCM.164.1.3	Challenge LW face Deputy on knowledge of ventilation quantities on the travel road, belt road and Tailgate and the relevant actions to be taken should insufficient quantity, velocity of pressure exist	Monthly	Niehaus Wouter - [REDACTED]	Agustin John - [REDACTED]
597	Frictional Ignition	TE 0000889	Frictional Ignition	CT.00066134	Inspections & maintenance to ensure all picks and pick tips are in place and remain sharp	CA.GRV.CCM.165.1.1	Review a sample (two for each week of the reporting month) of ERZC Inspections & Maintenance WO's completed to ensure all picks and pick tips are in place and within TARP levels requirements	Monthly	Niehaus Wouter - [REDACTED]	Agustin John - [REDACTED]
598	Frictional Ignition	TE 0000889	Frictional Ignition	CT.00066134	Inspections & maintenance to ensure all picks and pick tips are in place and remain sharp	CA.GRV.CCM.165.1.2	Visually inspect picks and pick tips to ensure they are within the TARP requirements	Monthly	Niehaus Wouter - [REDACTED]	Agustin John - [REDACTED]
599	Frictional Ignition	TE 0000889	Frictional Ignition	CT.00066134	Inspections & maintenance to ensure all picks and pick tips are in place and remain sharp	CA.GRV.CCM.165.1.3	Challenge ERZ controller on upcoming dykes, faults or intrusions that may lead to a FI event and the required action to be taken as a result of these structures	Monthly	Niehaus Wouter - [REDACTED]	Agustin John - [REDACTED]
600	Frictional Ignition	TE 0000889	Frictional Ignition	CT.00066181	Inspections & maintenance to ensure all picks and pick tips are in place and remain sharp (Development)	CA.GRV.CCM.166.1.1	Review a sample (two for each week of the reporting month) of ERZC Inspections & Maintenance WO's completed to ensure all picks and pick tips are in place and within TARP levels requirements	Monthly	Niehaus Wouter - [REDACTED]	Campbell, Jayden [REDACTED]
601	Frictional Ignition	TE 0000889	Frictional Ignition	CT.00066181	Inspections & maintenance to ensure all picks and pick tips are in place and remain sharp (Development)	CA.GRV.CCM.166.1.2	Visually inspect picks and pick tips to ensure they are within the TARP requirements	Monthly	Niehaus Wouter - [REDACTED]	Campbell, Jayden [REDACTED]
602	Frictional Ignition	TE 0000889	Frictional Ignition	CT.00066181	Inspections & maintenance to ensure all picks and pick tips are in place and remain sharp (Development)	CA.GRV.CCM.166.1.3	Challenge ERZ controller on upcoming dykes, faults or intrusions that may lead to a FI event and the required action to be taken as a result of these structures	Monthly	Niehaus Wouter - [REDACTED]	Campbell, Jayden [REDACTED]
603	Frictional Ignition	TE 0000889	Frictional Ignition	CT.00066177	Effective water spray deluge on cutting heads, shearers, TG Drives, AFC Raceways, and shield canopies	CA.GRV.CCM.167.1.1	Interview ERZC and discuss the maintenance schedule and replacement of sprays on cutting heads, shearers, TG Drive, AFC Raceways, and shield canopies	Monthly	Niehaus Wouter - [REDACTED]	Agustin John - [REDACTED]
604	Frictional Ignition	TE 0000889	Frictional Ignition	CT.00066177	Effective water spray deluge on cutting heads, shearers, TG Drives, AFC Raceways, and shield canopies	CA.GRV.CCM.167.1.2	Complete operational check to ensure that a representative sample of these sprays are in place and working effectively	Monthly	Niehaus Wouter - [REDACTED]	Agustin John - [REDACTED]
605	Frictional Ignition	TE 0000889	Frictional Ignition	CT.00066177	Effective water spray deluge on cutting heads, shearers, TG Drives, AFC Raceways, and shield canopies	CA.GRV.CCM.167.1.3	Review a sample of maintenance work orders to ensure that the sprays are being maintained in accordance with the schedule and that any defects have been rectified within the required timeframes	Monthly	Niehaus Wouter - [REDACTED]	Agustin John - [REDACTED]
606	Delay to mining operations from nil disturbance approval	TE 0000871	Environmental approvals not secured	CT.00065741	Environmental participation / inclusion in BP process	CA.GRV.CCM.168.1.1	Is there a documented process that integrates environmental considerations into the business planning processes?	Annual	Niehaus Wouter - [REDACTED]	Goonawardene Ravindu - [REDACTED]
607	Delay to mining operations from nil disturbance approval	TE 0000871	Environmental approvals not secured	CT.00065741	Environmental participation / inclusion in BP process	CA.GRV.CCM.168.1.2	Is there evidence that Roles and Responsibilities in the documented process have been communicated to and understood by the personnel in those roles?	Annual	Niehaus Wouter - [REDACTED]	Goonawardene Ravindu - [REDACTED]
608	Delay to mining operations from nil disturbance approval	TE 0000871	Environmental approvals not secured	CT.00065741	Environmental participation / inclusion in BP process	CA.GRV.CCM.168.1.3	Are the personnel accountable appropriately trained in their accountabilities, suitably experienced and skilled to perform activities they are responsible for in the documented process?	Annual	Niehaus Wouter - [REDACTED]	Goonawardene Ravindu - [REDACTED]
609	Water unavailable for mining operations (cutting, transfer, processing)	TE 0000870	Water Unavailable for Operations	CT.00065764	Access to alternative raw water supply (Burdekin)	CA.GRV.CCM.169.1.1	Review the current water supply agreements to confirm sufficiency of future water supply (5 year look ahead) based on water balance model and forecast production.	Annual	Bachmann Kate - [REDACTED]	Heap Adam - [REDACTED]
610	Water unavailable for mining operations (cutting, transfer, processing)	TE 0000870	Water Unavailable for Operations	CT.00065764	Access to alternative raw water supply (Burdekin)	CA.GRV.CCM.169.1.2	Ensure any additional supply agreements required to meet forecast water needs are in commercial plan / budget.	Annual	Bachmann Kate - [REDACTED]	Heap Adam - [REDACTED]
611	Water unavailable for mining operations (cutting, transfer, processing)	TE 0000870	Water Unavailable for Operations	CT.00065774	CITECT - tracking of water line pressure / auto shut off / auto transfer system	CA.GRV.CCM.170.1.1	Confirm the following infrastructure is installed and functional: differential flow / pressure relief valves on all water transfer and worked water lines - water metres on all input / output and transfer lines	Annual	Niehaus Wouter - [REDACTED]	Britton Mick - [REDACTED]
612	Water unavailable for mining operations (cutting, transfer, processing)	TE 0000870	Water Unavailable for Operations	CT.00065774	CITECT - tracking of water line pressure / auto shut off / auto transfer system	CA.GRV.CCM.170.1.2	Undertake an audit of the CITECT system to verify the following: pump trigger levels on all dams are setup as per the approved Operational Management Plans - alarms / auto shut off limits are set for all mine worked water and transfer water lines where loss of pressure is detected	Annual	Niehaus Wouter - [REDACTED]	Britton Mick - [REDACTED]
613	Release of mine affected water to the receiving environment	TE 0000875	Release of Mine Affected Water	CT.00065605	CITECT - tracking of water line pressure / auto shut off / auto transfer system	CA.GRV.CCM.171.1.1	Confirm the following infrastructure is maintained and functional to allow transfer of water in accordance with the approved Operational Management Plans: ROM Dam Pumps / WW Dam Pumps / MIA Dam Pumps	Bi-Annually	Niehaus Wouter - [REDACTED]	Britton Mick - [REDACTED]
614	Inability to sign off rehabilitation / relinquish mine lease	TE 0000872	Incomplete Rehabilitation	CT.00065727	Implement closure plan commitments	CA.GRV.CCM.173.1.1	Verify stage of mine closure plan is in alignment with the Mine Closure Toolbox (e.g. Preliminary)	Annual	Bachmann Kate - [REDACTED]	Heap Adam - [REDACTED]
615	Inability to sign off rehabilitation / relinquish mine lease	TE 0000872	Incomplete Rehabilitation	CT.00065727	Implement closure plan commitments	CA.GRV.CCM.173.1.2	Confirm mine closure plan actions have responsibilities assigned, are tracked and are progressing as per schedule	Annual	Bachmann Kate - [REDACTED]	Heap Adam - [REDACTED]
616	Release of sediment to the environment	TE 0000874	Inadequate sediment / erosion control	CT.00065639	Engineered sediment and erosion structures - rock armouring, sed traps, woe boys	CA.GRV.CCM.174.1.1	Confirm that surface drainage mapping is available in MapInfo / GIS and is up to date based on current topography of the operation (LIDAR)	Annual	Bachmann Kate - [REDACTED]	Heap Adam - [REDACTED]
617	Release of sediment to the environment	TE 0000874	Inadequate sediment / erosion control	CT.00065639	Engineered sediment and erosion structures - rock armouring, sed traps, woe boys	CA.GRV.CCM.174.1.2	Conduct field inspection of 3 potential release/erosion points based on surface drainage mapping, and confirm that engineered structures / controls are in place and are functional as per the design criteria in the Grosvenor SEMP	Annual	Bachmann Kate - [REDACTED]	Heap Adam - [REDACTED]
618	Release of sediment to the environment	TE 0000874	Inadequate sediment / erosion control	CT.00065619	SEC structures maintained as per schedule and to SEMP standards CT.00065607 - SEC structures maintained as per schedule and to SEMP standards	CA.GRV.CCM.175.1.1	Confirm audit of SEC structures has been undertaken pre/post wet season and actions have been entered into Enablon	Bi-Annually	Bachmann Kate - [REDACTED]	Heap Adam - [REDACTED]
619	Release of sediment to the environment	TE 0000874	Inadequate sediment / erosion control	CT.00065619	SEC structures maintained as per schedule and to SEMP standards CT.00065607 - SEC structures maintained as per schedule and to SEMP standards	CA.GRV.CCM.175.1.2	Verify in field that pre/post wet season inspection actions and/or maintenance actions have been effectively implemented on a sample (min. 3) sediment and erosion control structures (verify standard of engineering controls against requirements of the Grosvenor SEMP)	Bi-Annually	Bachmann Kate - [REDACTED]	Heap Adam - [REDACTED]
620	Over clearing / loss of ecosystem function	TE 0000873	Unauthorised Disturbance	CT.00065684	Sensitive / protected areas clearly signed or barricaded to deter entry	CA.GRV.CCM.176.1.1	Select 2-3 Cultural Heritage clearance notices issued within the last 6 months and confirm that where required, barricading / signage of scar trees (or other sensitive CH areas) has been undertaken.	Bi-Annually	Bachmann Kate - [REDACTED]	Heap Adam - [REDACTED]
621	Over clearing / loss of ecosystem function	TE 0000873	Unauthorised Disturbance	CT.00065684	Sensitive / protected areas clearly signed or barricaded to deter entry	CA.GRV.CCM.176.1.2	Confirm all topsoil stockpiles are signed and/or fenced.	Bi-Annually	Bachmann Kate - [REDACTED]	Heap Adam - [REDACTED]
622	Over clearing / loss of ecosystem function	TE 0000873	Unauthorised Disturbance	CT.00065684	Sensitive / protected areas clearly signed or barricaded to deter entry	CA.GRV.CCM.176.1.3	Confirm all rehabilitated areas have restricted access in place (signage / fencing etc.).	Bi-Annually	Bachmann Kate - [REDACTED]	Heap Adam - [REDACTED]
623	Over clearing / loss of ecosystem function	TE 0000873	Unauthorised Disturbance	CT.00065684	Sensitive / protected areas clearly signed or barricaded to deter entry	CA.GRV.CCM.176.1.4	Confirm relevant demarcation / barricading is in place to protect regional ecosystem (or other sensitive features) for the five most recently issued permits to disturb.	Bi-Annually	Bachmann Kate - [REDACTED]	Heap Adam - [REDACTED]
624	Over clearing / loss of ecosystem function	TE 0000873	Unauthorised Disturbance	CT.00065664	Pre-clearance inspection by environment department with supervisor to verify demarcation is as per permit conditions	CA.GRV.CCM.177.1.1	Sight register of PTDs and confirm pre-clearance inspection completed, including habitat tree identification for a sample of 5 permits within vegetated areas.	Bi-Annually	Bachmann Kate - [REDACTED]	Heap Adam - [REDACTED]
625	Over clearing / loss of ecosystem function	TE 0000873	Unauthorised Disturbance	CT.00065664	Pre-clearance inspection by environment department with supervisor to verify demarcation is as per permit conditions	CA.GRV.CCM.177.1.2	Confirm that observations from pre-clearance inspections were included as conditions of the PTD and verify implementation in field.	Bi-Annually	Bachmann Kate - [REDACTED]	Heap Adam - [REDACTED]
626	Inability to sign off rehabilitation / relinquish mine lease	TE 0000872	Incomplete Rehabilitation	CT.00065702	Environmental participation / inclusion in BP process	CA.GRV.CCM.178.1.1	Verify that the 3 year rehabilitation is current and has been endorsed by TS Manager, SHE Manager, Commercial Manager and GM.	Annual	Bachmann Kate - [REDACTED]	Heap Adam - [REDACTED]
627	Inability to sign off rehabilitation / relinquish mine lease	TE 0000872	Incomplete Rehabilitation	CT.00065702	Environmental participation / inclusion in BP process	CA.GRV.CCM.178.1.2	Verify that rehabilitation has been completed as per the time frames and locations in the 3 year rehabilitation plan.	Annual	Bachmann Kate - [REDACTED]	Heap Adam - [REDACTED]
628	Inability to sign off rehabilitation / relinquish mine lease	TE 0000872	Incomplete Rehabilitation	CT.00065716	Rehabilitation completed as per engineered design / completion criteria	CA.GRV.CCM.172.1.1	Select two sites which have been rehabilitated in the past 6 months and verify the following: work scope sign off by environmental department (via PTD or detailed design) / landform design, amelioration technique and seed mix clearly documented and communicated / in field results reflect design and permit requirements for rehabilitation / area has been added to the rehabilitation register / rehabilitation monitoring form has been completed and lo	Bi-Annually	Bachmann Kate - [REDACTED]	Heap Adam - [REDACTED]
629	HV vs. Person	TE 0000246	Personnel, Equipment & Machinery Interaction [Men & Materials Transport]	CT.00016041	Designated traffic flow (one way traffic on selected areas e.g. travel roads), rules and signage - 30m equipment stand-off zones while vehicles are in motion e.g. following and approaching	CA.GRV.CCM.179.1.1	Review operator behaviour at a specific underground intersection or roadway where potential mobile plant interactions may exist to validate that the correct traffic flow, signage and rules are being followed. For example the use of block lights, stops signs, horn signals, stand off distances, speed and other communication protocols	Monthly	Niehaus Wouter - [REDACTED]	Evans Troy - [REDACTED]
630	HV vs. Person	TE 0000246	Personnel, Equipment & Machinery Interaction [Men & Materials Transport]	CT.00016041	Designated traffic flow (one way traffic on selected areas e.g. travel roads), rules and signage - 30m equipment stand-off zones while vehicles are in motion e.g. following and approaching	CA.GRV.CCM.180.1.1	Review operator behaviour at a specific surface intersection or roadway where potential mobile plant interactions may exist to validate that the correct traffic flow, signage and rules are being followed. For example the use of lights, stops signs, horn signals, stand off distances, speed and other communication protocols	Monthly	Niehaus Wouter - [REDACTED]	Mulcahy Bevin - [REDACTED]
631	Fire within infrastructure	TE 0000248	Underground Fire	CT.00118956	Mandatory use of blast sentries and designated exclusion zones	CA.GRV.CCM.181.1.1	Blast sentry locations are clearly identified in blast permits / plans.	Bi-Annually	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
632	Fire within infrastructure	TE 0000248	Underground Fire	CT.00118956	Mandatory use of blast sentries and designated exclusion zones	CA.GRV.CCM.181.1.2	Blast Sentries are clearly identified by name on the Blast Plan/ Permit.	Bi-Annually	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
633	Fire within infrastructure	TE 0000248	Underground Fire	CT.00118956	Mandatory use of blast sentries and designated exclusion zones	CA.GRV.CCM.181.1.3	Blast exclusion zones are established to ensure personnel are not impacted by flyrock, fume or atmosphere changes.	Bi-Annually	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]



634	Failure of the gas monitoring system	TE 00000269	Failure of the Gas Monitoring System	CT.00015743	Priority Critical Control - ERZ-NERZ Boundary Installation Standards - audit of the UG workings for all new or changed installations. CT 00015744 - Priority Critical Control - ERZ-NERZ Boundary Installation Standards - Review the Gas Monitoring quality assurance report completed by the EEM.	CA.GRV.CCM.182.1.1	Review the Gas Monitoring quality assurance report completed by the EEM. Compare this report against Safegas details and location to ensure that they align.	Monthly	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
635	Failure of the gas monitoring system	TE 00000269	Failure of the Gas Monitoring System	CT.00015743	Priority Critical Control - ERZ-NERZ Boundary Installation Standards - audit of the UG workings for all new or changed installations. CT 00015744 - Priority Critical Control - ERZ-NERZ Boundary Installation Standards - Review the Gas Monitoring quality assurance report completed by the EEM.	CA.GRV.CCM.182.1.2	For areas where there are inconsistencies in this documentation, consult the UMM to determine appropriate corrective actions. For non compliances ensure a High Potential Hazard report is raised.	Monthly	Niehaus Wouter - [REDACTED]	Parsons-Young, Neil - [REDACTED]
636	Loads Falling		Suspended Loads falling	CT.00015997	Fit-for-Purpose Design & Selection of Equipment	CA.GRV.CCM.120.2.4	Complete an infield audit to ensure that a relevant sample of Surface Assets are rated, certified, and maintained in Fit-for-Purpose condition. Validate the following requirements: Select 4 different assets in different surface locations verify the load tie-downs are suitably rated, in-place and no modifications/add-ons have been made. Photograph the installation for evidence	Annual	Paganoni Peter - [REDACTED]	Hannigan Owen - [REDACTED]
637	Failure of the methane drainage system		Failure of the methane drainage system	CT.00015875	Borehole intersection notices completed	CA.GRV.CCM.48.2.3	Consult other Underground operations to confirm if any borehole intersection incidents have occurred during the monitoring period and if any learnings can be applied at Grosvenor	Quarterly	Niehaus Wouter - [REDACTED]	Kostowski Raymond - [REDACTED]
638	Roof fall		Strata Failure	CT.00017812	Priority Critical Control -Verify independent report of the Permit to Mine	CA.GRV.CCM.143.2.5	Confirm ERZ has reviewed PTM against Shift Plan (documented evidence required)	Monthly	Niehaus Wouter - [REDACTED]	Perks Jeffrey - [REDACTED]