

Stratford Coal CCC Meeting

Presentation –
Company Report &
Overview of Activities

May 2021

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Environment & Community Superintendent

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1. Progress at the Mine

Mining 1st Quarter 2021

	Total Waste (BCM)	ROM (T)	Product Coking (T)	Product Thermal (T)
Q1 2021	1,661,474	152,694	30,596	50,484

- Mining in Avon North continued during the quarter. Day and evening shift.
- Mining in Stratford East Pit during day and evening shift. Stage 3 clearing commenced during the quarter.
- Mining in the Roseville West Pit ceased during March 2021.
- BRN mining continued during dayshift only.

2. Environmental Reporting & Regulators

Management Area	Project	Status
Reporting	<ul style="list-style-type: none"> Stratford Mining Complex Annual Review 2020 Stratford Mining Complex Independent Environmental Audit EPBC Approval Annual Compliance Report 	<ul style="list-style-type: none"> The Stratford Mining Complex 2020 Annual Review has been prepared and submitted to DPIE and other regulators in April 2021. Copies will be made available to the CCC and on the Stratford Coal website. 3-yearly audit undertaken in December 2020 by Ken Holmes of Barnett & May. The audit report has been finalised and submitted in March 2021. Copies will be made publicly available following confirmation from DPIE. The EPBC 2020 Annual Compliance Report has been prepared and submitted in March 2021. The report is available on the Stratford Coal website.
Regulator	<ul style="list-style-type: none"> MOP & Rehabilitation Management Plan Environmental Management Plans Regulator Inspections 	<ul style="list-style-type: none"> A new Stratford Mining Operations & Rehabilitation Management Plan was lodged with the Resources Regulator in January 2021. The MOP reflects the proposed mining and rehabilitation activities for the next 3 years. The MOP has been provided to CCC Members for consultation. The Resources Regulator has requested additional information in the MOP. SCPL is currently preparing for resubmission. The Water Management Plan has been revised to include additional details on PAF management and PAF Cell design. The revised WMP will be submitted to DPIE for approval. The Pollution Incident Response Management Plan has been updated and submitted to the EPA. DPIE conducted a site inspection on 20 April 2021. The purpose of the inspection was to provide a general update on the Stratford operations.

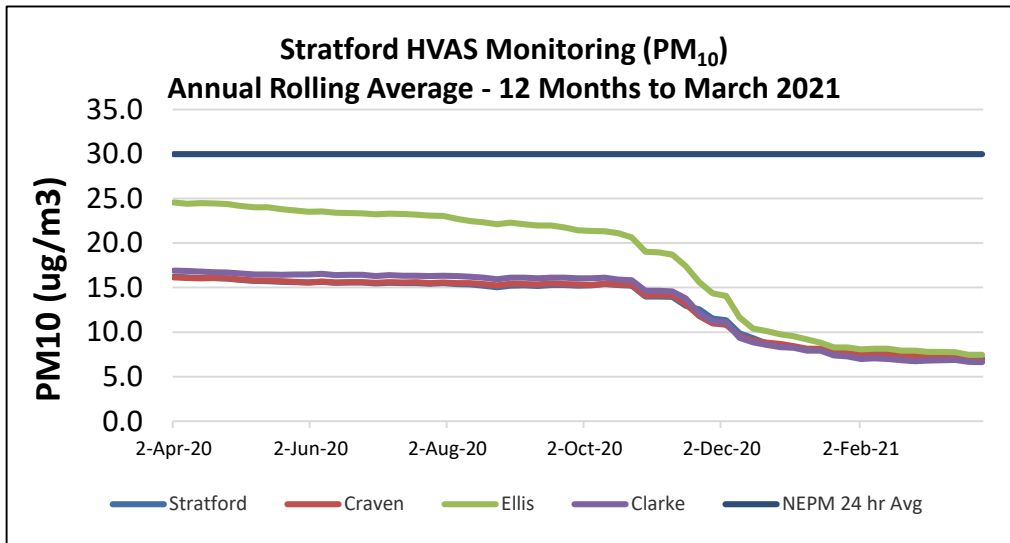
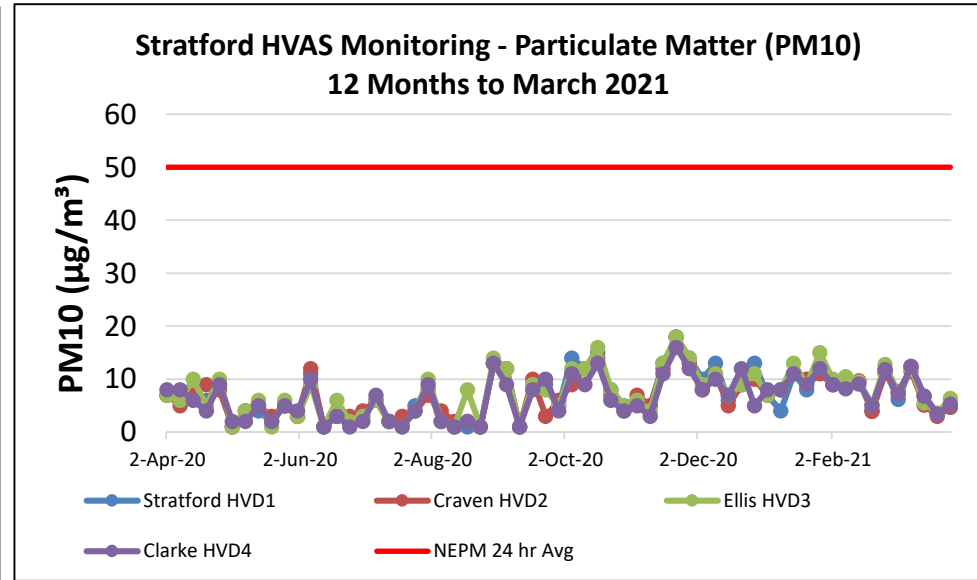
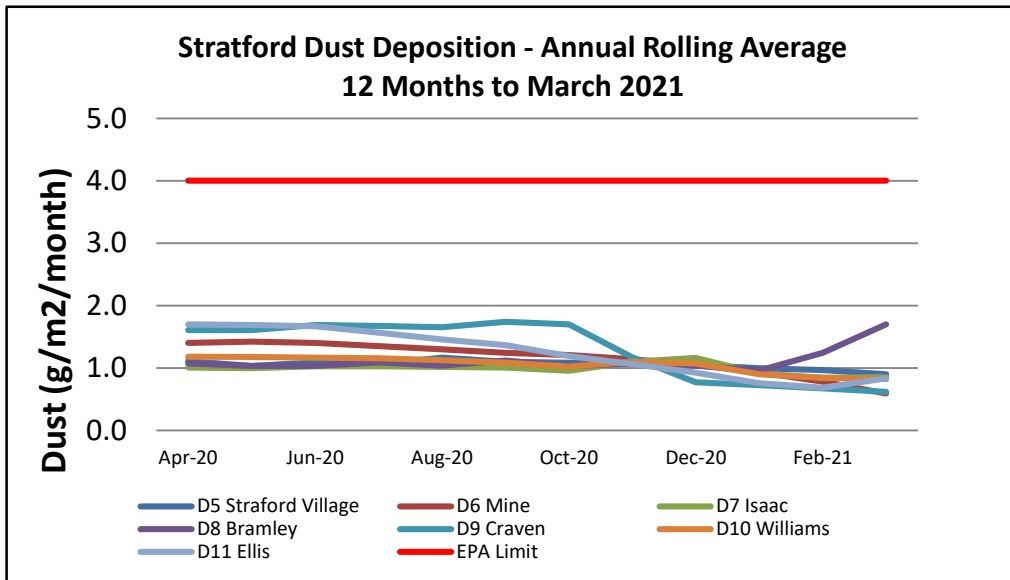
3. Environmental Management Plans & Monitoring

- a) Air Quality Management
- b) Blast Management
- c) Noise Management
- d) Water Management
- e) Rehabilitation Management
- f) Biodiversity Management
- g) Mine Closure Planning

3a. Air Quality Management

Management Area	Project	Status
Air quality monitoring	<ul style="list-style-type: none">Real-time air quality monitoring	<ul style="list-style-type: none">The real-time air quality TEOM monitors in Stratford and Craven villages continue to operate.General ambient PM10 dust levels have been very low throughout Summer/Autumn due to consistent rainfall.The real-time air quality management system analyses monitoring data from the TEOM units and records times when the air quality criteria is likely to be exceeded. The system will then provide alarms to staff to implement additional dust mitigation measures where required.No triggers have been received relating to mining operations.

3a. Air Quality Management



- Generally good overall air quality.
- All sites below DPIE limit. Air quality results lower during months with higher rainfall.
- Steep decreasing trend during December 2020 due to elimination of bushfire affected results in 2019.
- HVAS results provide more reliable data compared to dust deposition results and should be referred to when interpreting dust emissions.



3b. Blast Management

Management Area	Project	Status
Blasting	<ul style="list-style-type: none">Blast MonitoringBlast Results	<ul style="list-style-type: none">Blasting activities continued in Avon North, BRN and Stratford East open cuts.For the annual reporting period 0% of blasts have exceed 115dB(L) (<i>No more than 5% of total blasts allowed to exceed the 115dbL</i>).No blasts exceeded the 5mm/s during the quarter. For the annual reporting period no blasts have exceed 5mm/s.No blasts recorded fume during the quarter.
	<ul style="list-style-type: none">Blasting Preparations	<ul style="list-style-type: none">Blast notifications have continued.Additional recipients have been added to the notification list on request.
Building Inspections	<ul style="list-style-type: none">Baseline condition inspections	<ul style="list-style-type: none">No building inspections required during the quarter.

3b. Blast Management

Location	Date	Time	Isaac (B1) 7432		Ex-Judge (B2) 7441		Atkins (B6) 7434		Greenwood 7422		Clarke (B5) (Mine-owned) 7433 (previously 7377)		Overpressure Site Exceedance ¹	Ground Vibration Site Exceedance ¹	Monitored Blasts ¹	Fume Rating
			mm/s	dBL	mm/s	dBL	mm/s	dBL	mm/s	dBL	mm/s	dBL	%	%		
Avon North	Friday, 8 January 2021	12:38:00	<0.24	<114	<0.24	<114	0.24	97.8	<0.24	<114	0.45	111.6	0.00%	0.0%	46	Nil
Roseville West	Tuesday, 12 January 2021	13:08:00	0.45	96.5	0.31	108.0	0.27	108.4	<0.24	<114	<0.24	<114	0.00%	0.0%	47	Nil
Stratford East	Wednesday, 13 January 2021	9:44:00	0.26	86.0	<0.24	<114	<0.24	<114	0.48	107.4	0.68	85.8	0.00%	0.0%	48	Nil
Stratford East	Thursday, 14 January 2021	14:35:00	0.28	82.5	<0.24	<114	<0.24	<114	0.35	102.0	0.72	93.1	0.00%	0.0%	49	Nil
Stratford East	Friday, 15 January 2021	12:37:00	<0.24	<114	<0.24	<114	<0.24	<114	<0.24	<114	0.30	82.2	0.00%	0.0%	50	Nil
Roseville West	Monday, 18 January 2021	13:05:00	<0.24	<114	<0.24	<114	<0.24	<114	<0.24	<114	<0.24	<114	0.00%	0.0%	51	Nil
Roseville West	Wednesday, 20 January 2021	13:11:00	0.28	98.8	<0.24	<114	0.28	103.9	<0.24	<114	<0.24	<114	0.00%	0.0%	52	Nil
Avon North	Thursday, 21 January 2021	12:52:00	0.25	82.3	0.33	86.5	0.39	92.8	<0.24	<114	1.65	108.5	0.00%	0.0%	53	Nil
Stratford East	Thursday, 28 January 2021	12:43:00	<0.24	<114	<0.24	<114	<0.24	<114	<0.24	<114	0.26	79.4	0.00%	0.0%	54	Nil
Roseville West	Tuesday, 2 February 2021	13:13:00	0.31	90.3	0.34	97.8	0.28	95.3	<0.24	<114	0.26	91.4	0.00%	0.0%	55	Nil
Avon North	Friday, 5 February 2021	12:42:00	0.27	82.3	0.33	83.0	<0.24	<114	<0.24	<114	1.34	110.0	0.00%	0.0%	56	Nil
Roseville West	Tuesday, 9 February 2021	13:13:00	0.25	97.1	0.26	101.1	<0.24	<114	<0.24	<114	<0.24	<114	0.00%	0.0%	57	Nil
Stratford East	Thursday, 11 February 2021	12:44:00	0.24	85.8	0.26	86.5	<0.24	<114	0.47	109.5	0.41	82.9	0.00%	0.0%	58	2A
Roseville West	Tuesday, 16 February 2021	13:25:00	0.35	96.3	0.40	104.6	0.28	92.8	<0.24	<114	0.25	85.4	0.00%	0.0%	59	Nil
Stratford East	Thursday, 18 February 2021	12:56:00	<0.24	<114	<0.24	<114	<0.24	<114	<0.24	<114	0.44	79.4	0.00%	0.0%	60	Nil
Avon North	Monday, 1 March 2021	12:43:00	0.29	82.3	0.27	83.0	0.27	89.3	<0.24	<114	1.08	106.4	0.00%	0.0%	61	Nil
Stratford East	Friday, 5 March 2021	12:35:00	0.31	82.3	0.27	83.0	<0.24	<114	0.75	108.9	0.41	91.4	0.00%	0.0%	62	Nil
Avon North	Tuesday, 9 March 2021	12:45:00	<0.24	<114	<0.24	<114	<0.24	<114	<0.24	<114	0.73	112.4	0.00%	0.0%	63	Nil
Avon North	Friday, 26 March 2021	12:46:00	0.31	85.8	0.25	96.1	<0.24	<114	<0.24	<114	<0.24	<114	0.00%	0.0%	64	Nil
Stratford East	Thursday, 1 April 2021	12:40:00	0.24	93.2	0.26	86.5	<0.24	<114	0.38	102.1	0.54	87.3	0.00%	0.0%	65	Nil
BRN	Tuesday, 13 April 2021	12:40:00	<0.24	<114	0.32	92.6	0.79	91.2	<0.24	<114	0.44	100.6	0.00%	0.0%	66	Nil
Avon North	Wednesday, 14 April 2021	12:37:00	0.03	82.3	0.28	83.0	<0.24	<114	0.48	106.6	1.16	112.2	0.00%	0.0%	67	Nil
BRN	Friday, 16 April 2021	12:34:00	<0.24	<114	0.35	91.0	<0.24	<114	<0.24	<114	<0.24	<114	0.00%	0.0%	68	Nil
Stratford East	Tuesday, 20 April 2021	16:28:00	0.37	82.3	0.29	83.0	<0.24	<114	0.85	107.7	0.64	79.4	0.00%	0.0%	69	Nil
Avon North	Friday, 23 April 2021	12:41:00	0.24	90.3	0.24	93.9	<0.24	<114	<0.24	<114	0.68	111.1	0.00%	0.0%	70	Nil
Stratford East	Monday, 26 April 2021	12:36:00	<0.24	<114	<0.24	<114	<0.24	<114	0.51	102.9	0.39	82.9	0.00%	0.0%	71	Nil
Stratford East	Thursday, 29 April 2021	12:41:00	0.28	82.3	0.26	83.0	<0.24	<114	0.75	110.6	0.71	82.9	0.00%	0.0%	72	Nil

• Note: Blast Compliance: No more than 5% of total blasts for annual monitoring period to exceed an overpressure of 115 dBL or ground vibration of 5 mm/s. No blast is to exceed an overpressure of 120 dBL or ground vibration of 10 mm/s.

• Note: Where no trigger is recorded the results indicate <0.22mm/s and <110.0dBL corresponding to the blast monitor settings.

• Note: Blast results for Clarke are extrapolated to the next nearest non-mined owned residence.



3c. Noise Management

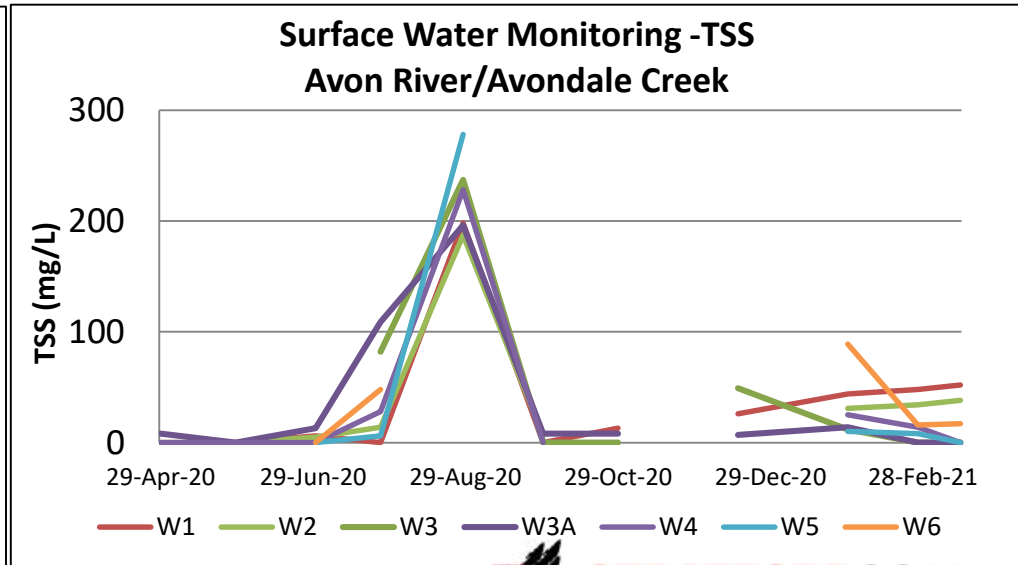
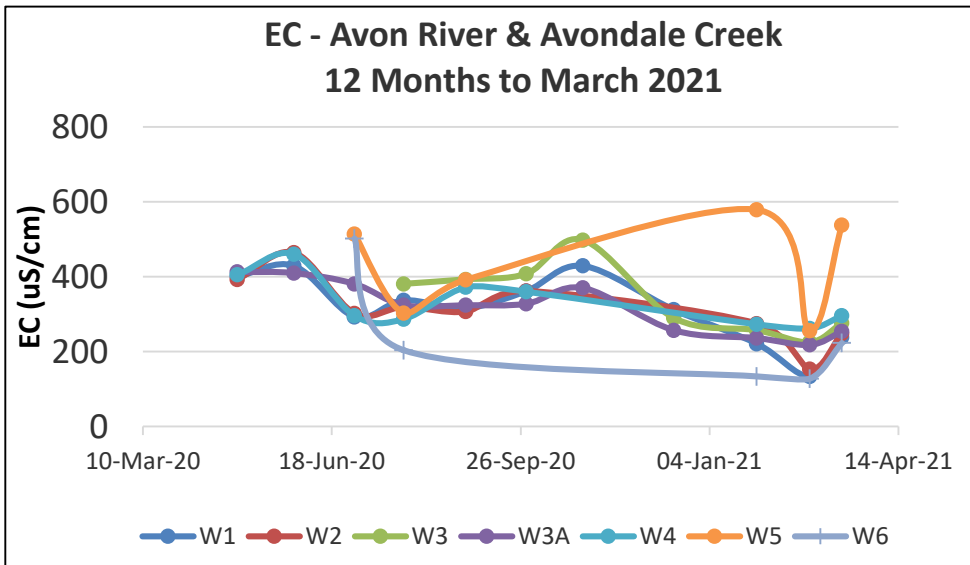
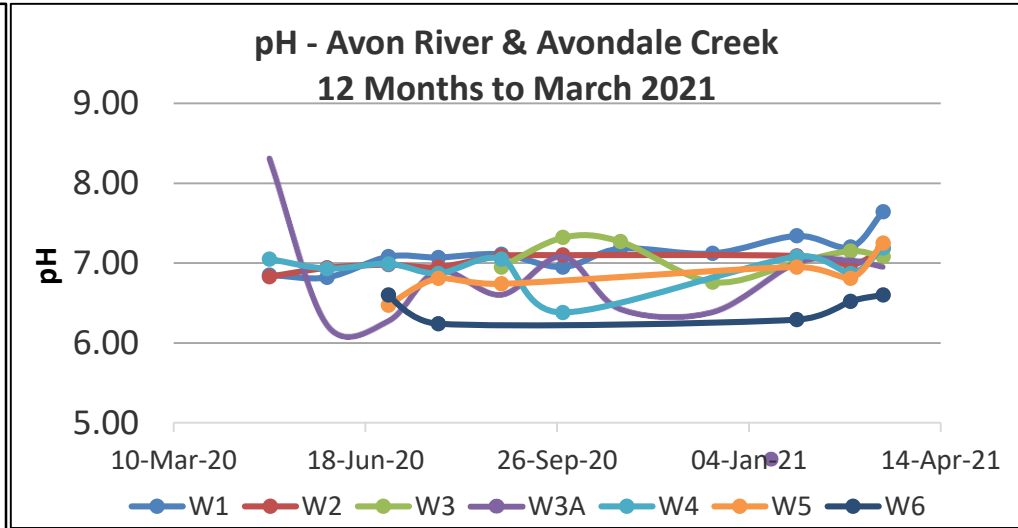
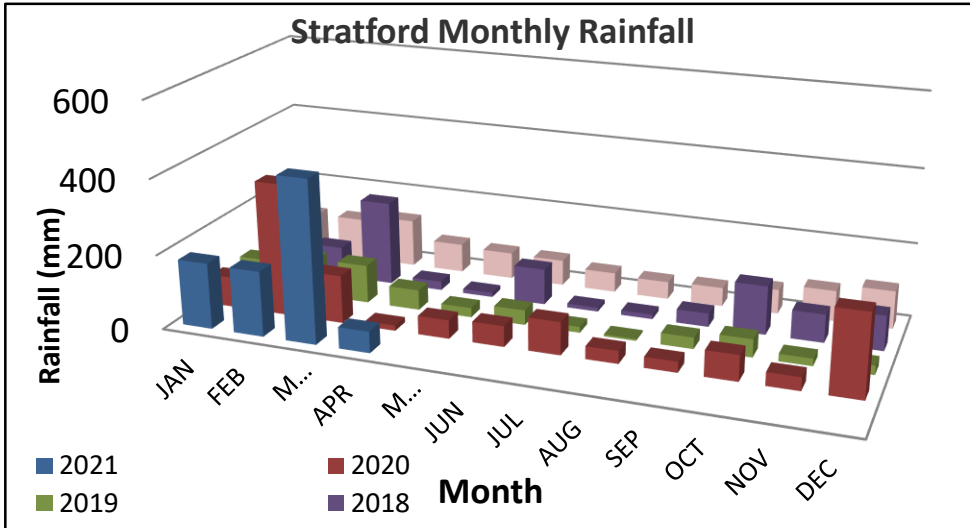
Management Area	Project	Status
Monitoring	<ul style="list-style-type: none"> Monthly Noise Survey 	<ul style="list-style-type: none"> Monthly attended noise monitoring was undertaken during Q1 2021. No non-compliant results were recorded during the surveys. Reports will be made available on the Stratford Coal website. The next monitoring is scheduled in June 2021.
Real-Time Noise	<ul style="list-style-type: none"> Real-Time Noise System Additional Real-Time Noise Monitors Noise forecast reports. 	<ul style="list-style-type: none"> Real-time noise monitors continue to operate near Stratford village and Craven Village. The integrated real-time noise management system is operational. The system analyses monitoring data from the noise units, the weather station and the inversion towers and records times when either the noise criteria is likely to be exceeded or when noise enhancing weather conditions are present. The system will then provide alarms to staff to implement additional noise mitigation measures where required. Additional monitor installed near a receivers property on Deards Lane, Craven, to provide further data on noise emissions. Daily predicted noise and dust forecast reports are generated and are issued to the mining supervisors prior to each shift.

3d. Water Management

Management Area	Project	Status
Site Water Management	<ul style="list-style-type: none"> Annual water balance review. 	<ul style="list-style-type: none"> The 2020 annual site water balanced has been prepared. A summary is included in the Annual Review 2020/21 and will be available on the Stratford Coal website.
Water management Structures	<ul style="list-style-type: none"> Stratford East clean water diversion drain 	<ul style="list-style-type: none"> The Stratford East Stage 2 clean water diversion has continued and will progress to the south prior to clearing activities being undertaken.
Surface Water Monitoring	<ul style="list-style-type: none"> Rainfall events Routine monitoring 	<ul style="list-style-type: none"> A major rainfall event occurred on 20 March 2021. Water transfers and monitoring was conducted as required. As a result of the rain event Stratford experience several sediment dam spills and a failure of a culvert on Avondale Creek. Regulatory reporting has been completed as required. Routine water sampling continued. All results consistent with the SCM Environmental Assessment predictions. Above average rainfall has been received during summer 2020/21. Multiple high flow rain events occurred during summer 2020/21.
Groundwater Monitoring	<ul style="list-style-type: none"> Routine monitoring 	<ul style="list-style-type: none"> Routine groundwater sampling continued. All results consistent with the SCM Environmental Assessment predictions. A recalibration and validation of the Stratford groundwater model is currently being prepared. This will include a revised post-mining groundwater balance and final void water balance. The results will be included in a revision of the Water Management Plan.



3d. Water Management



3e. Rehabilitation Management

Management Area	Project	Status
Rehabilitated Waste Emplacements	<ul style="list-style-type: none"> Avon North waste emplacement Rehabilitation Planning Rehabilitation Maintenance 	<ul style="list-style-type: none"> Seeding of the northern side of Avon North waste emplacement was completed in April 2020. Due to poor establishment of vegetation, rework and reseed of the Avon North Waste Emplacement was completed in Q4 2020 Planning phase is complete for rehabilitation works schedule in 2021 which will include progressive backfilling and shaping of the BRN/Avon North waste emplacement and back filling the northern end of Stratford East. The Stratford Main Pit Waste Emplacement Rehabilitation has been slashed during February 2021. This area is not currently stocked. The Codam has also been slashed.
Monitoring	<ul style="list-style-type: none"> Vegetation Monitoring - Ecosystem Function Analysis 	<ul style="list-style-type: none"> Rehabilitation monitoring incorporating landscape function analysis and vegetation dynamics is scheduled for May 2021. The results will be included in the next Annual Review.



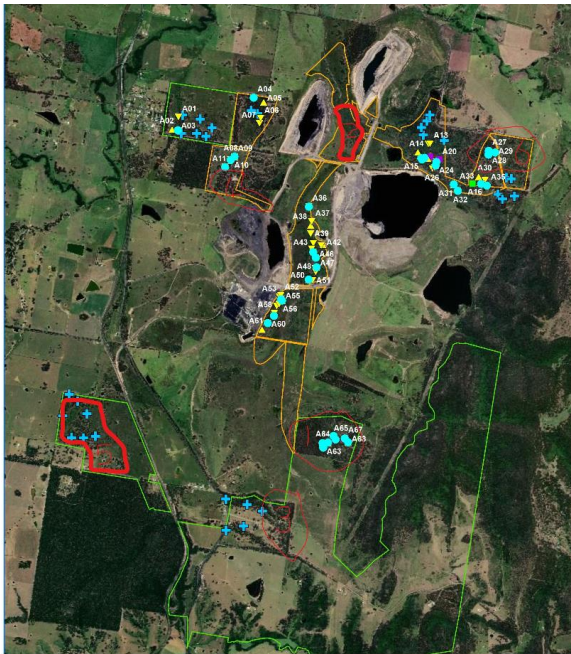
3e. Biodiversity Management

Management Area	Project	Status
Biodiversity Offset Area	<ul style="list-style-type: none"> • Revegetation Works • Annual Monitoring 	<ul style="list-style-type: none"> • 2021 Revegetation planting has been completed. Completed areas include biodiversity offset properties near Craven, Wenham Cox Rd and ex-Foreman/Johnson property. Approximately 14,200 trees over 38 hectares have been planted. • Annual vegetation monitoring within the biodiversity offset and enhancement areas was completed in February 2021. A summary of the monitoring is included in the SMC Annual Biodiversity Report and the Annual Review. Both reports are available on the Stratford website.
Weed Control	<ul style="list-style-type: none"> • Weed spraying program 	<ul style="list-style-type: none"> • Weed spraying recommenced in the Stratford Biodiversity Area and Stratford Mining Lease areas in October. Weed spraying has continued through to May 2021 in the Biodiversity Offset area and Mining Lease areas targeting Blackberry, Crofton weed, Tobacco bush, Privet and Lantana.



3f. Biodiversity Management

Management Area	Project	Status
Nest Box Program	<ul style="list-style-type: none"> Nest Box Installation Nest box Monitoring 	<ul style="list-style-type: none"> An additional 93 Nest boxes were installed in the Stratford Biodiversity Area and Biodiversity Enhancement Area in March 2021. These nest boxes are to specifically target the Squirrel glider and other arboreal fauna. Nest box monitoring was undertaken in February and May 2021. Monitoring in 2020 showed 50% of nest boxes had signs of use 6 months after installation, 5 nest boxes in total were occupied by Squirrel Gliders. Monitoring will continue quarterly for the new boxes in 2021. A summary of the nest box progress is included in the 2020 Annual Review.



Map: Current and proposed nest boxes in the Stratford Biodiversity Areas.



Photo: Family of Squirrel Gliders in nest box, January 2021.

3g Mine Closure Planning

Note: *Refer to Stratford Mining Operations Plan & Rehabilitation Management Plan Table 13 Mine Closure Planning Schedule.
*Further detail on mine closure planning progress is included in the Annual Review 2020.

Management Area	Project	Status
Mine Closure Planning General	<ul style="list-style-type: none"> Stakeholder engagement 	<ul style="list-style-type: none"> Communications with the community consultative committee (CCC) regarding mine closure planning is ongoing through the life of the project. This presentation will continue to be updated to provide relevant information through the CCC forum.
Rehabilitated Landforms	<ul style="list-style-type: none"> Landform design and stability 	<ul style="list-style-type: none"> SCPL will continued to prepare the detailed final landform designs for the waste emplacement areas.
Water Management	<ul style="list-style-type: none"> Site water Balance 	<ul style="list-style-type: none"> SCPL will review the site water balance and final landform drainage design to ensure comparable drainage density to local natural landforms.
Final Voids	<ul style="list-style-type: none"> Water management and final void water balance 	<ul style="list-style-type: none"> Review of the final void site water balance is currently being prepared to ensure the balance incorporates the final landform design, surface water inflows and outflows to/from final void. Further review work is required.
	<ul style="list-style-type: none"> Groundwater Model 	<ul style="list-style-type: none"> Post-mining groundwater model verification is currently being undertaken to incorporate final void design and update the groundwater model. This work is being undertaken in conjunction with the final void water balance.
Rehabilitation Resources	<ul style="list-style-type: none"> Topsoil Resources 	<ul style="list-style-type: none"> A topsoil stockpile update was undertaken in July 2020 to ensure adequate topsoil is available for rehabilitation. The use of topsoil continues to be tracked.
Biodiversity Offset Integration	<ul style="list-style-type: none"> CSC reconstruction 	<ul style="list-style-type: none"> Integration of the biodiversity offset strategy is a key component of the rehabilitated final land form and land use. SCPL will undertake an assessment of the SMC Biodiversity Offset Areas and Biodiversity Enhancement Areas to confirm completion of the Biodiversity Offset Strategy completion criteria and integration with the SMC rehabilitation.
Environmental Management Plans	<ul style="list-style-type: none"> EMP reviews for closure stage 	<ul style="list-style-type: none"> The EMPs will be progressively reviewed and updated as required, to reflect the current stage of operations and the ongoing rehabilitation and mine closure requirements. Identify post-closure environmental monitoring and maintenance requirements. Prepare detailed performance and completion criteria for mine closure.

4. Community Complaints - Summary

Stratford Complaint Summary

Period: 1/2/2020 - 31/4/2021

Period: 3 Months

Total No. of Complaints: 4

Total No. of Complainants: 3

Date/Time of Complaint	Complainant Location	Method of Complaint	Nature of Complaint	Investigation/Outcome
24/03/2021 21:32hrs	Approx. 1.5km west of operations, Bowens Road Stratford	Direct text to MP mobile	Noise	<p>Complaint via text: "Keep the noise down, people do need to sleep".</p> <ul style="list-style-type: none"> • SCPL forwarded details of complaint to Mining Supervisor to ensure noise mitigation measures were being implemented. • SCPL provided a return text on 24/03/2021 to advise the complaint had been recorded and offered a follow-up call if required. • SCPL advised they would continue to cooperate and provide further information as requested. • SCPL also recieved a call from DPIE on 25/03/21 stating they had received the same complaint. No further information requested at this stage.
26/03/2021 15:45hrs	Approx. 1.5km west of operations, Bowens Road Stratford	Via DPIE	Noise and Blasting road closures	<p>Complaint received via DPIE. Complaint stated:</p> <ul style="list-style-type: none"> •Noise from the mine on Wednesday and Thursday nights, around 8:30 – 9:30pm. - Comments provided by the shift supervisor: Normal operations, digger fleet in Avon North, digger fleet in Stratford East, working at higher elevation due to water in pit. Standard noise mitigation measures implemented as per Noise Management Plan. •Thursday 25 March (last night) complainant heard horns at about 10:30pm - Comments provided by for Mining Superintendent: • SMC uses a hornless communication system on all the dig units. Horns are not used on the excavators. Horns are only used by haul trucks when leaving the go lines at the start of shift or after shift break in accordance with safety requirements. Evening shift starts at 2:30pm and the shift break ends at 9:00pm. Horns are generally not used in other areas or at other times. •Blast carried out today at 12:47pm, which complainant wasn't expecting. There were signs on the road, but the road wasn't closed. - SCPL has reviewed drone footage which shows portions of Wenham Cox Road adjacent to the blast immediately prior to and after the blast and there are no public vehicles present. •Could you include Complainant on your blast notification register. - Complainant added to SMS notifications list.

4. Community Complaints - Summary

Stratford Complaint Summary

Period: 1/2/2020 - 31/4/2021

Period: 3 Months

Total No. of Complaints: 4

Total No. of Complainants: 3

Date/Time of Complaint	Complainant Location	Method of Complaint	Nature of Complaint	Investigation/Outcome
21/04/2021 10:48hrs	Approx. 1.5km west of operations, Bowens Road Stratford	Direct text to MP mobile	Noise	<p>Complaint via text: "The noise last night was ridiculous, keep it down".</p> <ul style="list-style-type: none"> • SCPL forwarded details of complaint to Mining Supervisor to ensure noise mitigation measures were being implemented. • Observations from Wenham Cox Rd indicated mine noise was audible although not dominant. Attended noise monitoring was undertaken on 21/04/2021, all results compliant. • SCPL advised they would continue to implement appropriate mitigation measures for noise. SCPL will cooperate and provide further information as requested.
26/04/2021 22:02hrs	Approx. 3.2km west of the operation	Community Hotline	Noise	<p>Complaint: "Noise"</p> <ul style="list-style-type: none"> • ECC returned complainants call at 10:13AM as requested. Complainant stated that 'CHPP noise had increased dramatically over the past week'. The Complainant explained the noise as the plant really rewing and operating at a much louder noise than usual. The Complainant added that there was intermittent machine noise and he did not hear any noise that he believed was a dozer. • ECC advised they would continue to implement appropriate mitigation measures for noise. <p>Weather conditions: Strong inversion present at 10:02PM on the 26/4/2021. Consistent very light W wind conditions at the time of complaint.</p> <ul style="list-style-type: none"> • CHPP Superintendents comments: Plant operating from 06:30am 26/4/2021 until 12:20AM 27/4/2021. ROM loader and small excavator operating at the time of complaint. No unusual operations at CHPP. • Low level LF noise noted on noise recording. Cicadas and other insect noise dominant at Craven noise monitor.

5. Community Programs

Management Area	Project	Status
Support Programs	Stratford Coal Community Support Program	<ul style="list-style-type: none"> The presentation night for Stratford Coal Community Support Program for 2021 was held on Thursday, 29th April 2021 at the Stroud Country Club. Stratford Coal has granted over \$84,000 in funding to support 21 local community organisations across the Gloucester and Stroud region, aiming to make a positive difference to the community.
	Stratford Coal Education Support Fund	<ul style="list-style-type: none"> The presentation night for Stratford Coal Education Support Fund for 2021 was held on Wednesday, 31st March 2021 at the Avon Valley Inn. The Education Support fund continues to provide much needed funding for the next generation of young apprentices and tertiary students. The Stratford Coal Education Support Fund will be running again during 2021 and applications are available from Gloucester High School or the MidCoast Council Gloucester office.

