

Programme Committee 29 July 2020

Appendix A NLHPP – Dashboard Report







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Please note that this dashboard report and project reports contained in Appendix A of the Programme Update (Part 2) reflect the most recent period-end of 29/05/2020



Programme Summary (end of May reporting period)



Completed within previous period:	Look ahead for next period:
 Construction remobilisation — All construction activities have recommenced in line with the remobilisation plans developed collaboratively between NLHPP and the contractors. EcoPark South procurement — EcoPark South tender has progressed through the negotiation phase and Invitation to Submit Final Tenders (ISFT) were issued on time. Site-wide Intrusive Surveys — This framework has now been awarded to Galldris following completion of the procurement process. ERF discharge requirements — LB Enfield completed their determination of the discharge requirement application for the ERF. ERF third party assurance—A formal, independent assurance reveiw, delivered by Fichtner, was completed. Laydown East contract close-out— A commercial resolution has been agreed and the contract will now move into the defects period. 	 ERF tender preparation — The coming period will be extremely busy with the final drafting of the tender documents, with contributions required from across the functions. EPS Tender – The evaluation will be completed within June following the return of tenders.
Not achieved in previous period:	Issues for resolution:
Construction activities – As the suspension has continued, the on site activities have not been completed and will follow upon full remobilisation.	 Schedule confidence – impacts of COVID-19 are still to be fully understood and key opportunities around interfaces are being examined. Northern Area Clearance – the feasibility study has highlighted the challenge for a temporary facility of balancing the available space with operational needs. The NLHPP and LEL teams are working closely to find a workable solution.



Project Health Check



Project	Co	st	Sche	dule	Risk		H&S		Overall	
	In-period	Period Trend	In-period	Period Trend	In-period	Period Trend	In-period	Period Trend	In-period	Period Trend
Laydown Area (East) - E1a1	n/a		n/a		n/a		n/a		n/a	
Laydown Area (West) & Eastern Access - E1a2		\Rightarrow		1		\Rightarrow		\Rightarrow		
Northern Access - E1b		\Rightarrow		\Rightarrow		\Rightarrow		$\qquad \qquad \Longrightarrow \qquad$		
Transport Yard - E2a		\Rightarrow		1		\Rightarrow		\Rightarrow		
Sewer Diversion (Enabling Works) - E2b		\Rightarrow		1		\Rightarrow		$\qquad \qquad \Longrightarrow \qquad \qquad \\$		
Sewer Diversion (Main Works) - E2c		\Rightarrow		1		\Rightarrow		\Rightarrow		
EcoPark South – E3a		\Rightarrow		1		$\qquad \qquad \Box >$		$\qquad \qquad \Box >$		
Northern Area Clearance – E3b		\Rightarrow		\Rightarrow		1		\Rightarrow		
Utility Corridor and Main DNO connections - E4		\Rightarrow		\Rightarrow		\Rightarrow		$\qquad \qquad \Box >$		
Energy Recovery Facility (ERF) - E7		\Rightarrow		\Rightarrow		\Rightarrow		\Rightarrow		
EfW demolition and decommissioning - E8		\Rightarrow								
Southern Access Widening - E9		\Rightarrow		\Rightarrow		\Rightarrow		\Rightarrow		

See next two slides for key to RAG status



Project Health Check – Key (1 of 2)



Key	Cost	Schedule	Risk	Overall
•	Overall Project Cost FAC*: • Is below the Overall Project Cost Baseline by 10% or less.	The project completion forecasted date (gate 5) is greater than 20 days prior to the baseline date.	Risks generally being closed, mitigation actions and related activities being addressed or progressed. "profile" of risk going down.	A project is assessed as green if its performance does not threaten the NLHPP's overall objective of bringing the new ERF into service at the end of 2025 or cause the NLHPP baseline budget of £1.13bn to be exceeded.
•	Overall Project Cost FAC*: • Exceeds the overall Project Cost Baseline by less than 15%, or • Is below the Overall Project Cost Baseline by 10—20%.	The project completion forecasted date (gate 5) is equal to or less than 20 days prior to the baseline date.	A mixed picture of new risks opening while others are closing. Some actions resolving, others stalled or delayed. Risk Profile remaining flat.	A project is assessed as amber if its current plans threaten the overall objective of bringing the new ERF into service at the end of 2025 or cause the NLHPP baseline budget of £1.13bn to be exceeded, but that mitigation plans are in place.
•	Overall Project Cost FAC*: • Exceeds the overall Project Cost Baseline by more than 15%, or • Is below the Overall Project Cost Baseline by 20% or more.	The project completion forecasted date (gate 5) is greater than the baseline date.	Increasing risk to the project – more risks opening than closed, mitigations and associated activities not progressing. Risk profile increasing.	A project is assessed as red if its current plans threaten the overall objective of bringing the new ERF into service at the end of 2025 or cause the NLHPP baseline budget of £1.13bn to be exceeded, but mitigation plans are either not in place or not yet finalised.

Key	Context
\Rightarrow	No material change in status between the current and previous period
1	Adverse change in status between the current and previous period
1	Positive change in status between the current and previous period

Projects with an overall Red status have been included in the deep-dive section of the Part 2 report.



Project Health Check – Key (2 of 2)



Vov	Health and Safety						
Key	Leading Indicators	Lagging Indicators	COVID-19 Performance	Overall			
•	Senior leadership engagement, Positive Behaviours and Safety Observations noted and recorded.	No recorded incidents, accidents or near misses. Any issues are outside the Project's control.	Complete compliance with CLC SOPs and additional NLHPP suggestions. Visible promotion of excellent practice.	Project will receive a Green RAG if all three indicators are green.			
•	Only normal scheduled HS&W advisor site visits and weekly HS&W Snapshots published.	Any recorded accident, lost time or otherwise, or occupational disease (including CV-19)	Occasional failures to comply with CLC SOPs but are promptly remedied.	Project will receive an overall Amber RAG if one or more indicators are Amber.			
•	None recorded	Any RIDDOR incident.	Consistent failures to comply with CLC Site Operating Procedures version 4	Project will receive a Red RAG if two or more indicators are Red			

Key	Context
\Rightarrow	No material change in status between the current and previous period
1	Adverse change in status between the current and previous period
1	Positive change in status between the current and previous period



Schedule Dashboard



Milestone (Critical)	Baseline Date	Forecast Date	Deviation to Baseline	Interface	Recovery Plan
Complete works to Hawley Road site (Temp long term LEL Transport Yard)	06-Jul-20	05-Oct-20	-13	Enables start of enabling works to Shaft A	
Complete Laydown Area	11-Nov-20	20-Jan-21	-8	Enables new Eastern Access road to open to light traffic.	An opportunity has been identified and developed to revise the sewer enabling works such that the sewer diversion contractor can gain
Start Sewer Diversion Enabling Works to Shaft A Area on site	17-Jun-20	30-Oct-20	-19	Requires relocation of Transport Yard to Hawley Road	access to site on time. This will recover between 12 and 18 weeks of the schedule.
Complete Sewer Diversion Enabling Works	23-Oct-20	11-Feb-21	-15	Enables access to the Sewer Diversion Main Works contractor.	
Start Sewer Diversion Main Works on site	23-Sep-20	11-Feb-21	-19	Requires enabling works to Shaft A area to be completed	
Start EcoPark South Works on site (with some restrictions)	25-Jan-21	25-Jan-21	0	Access to sewer shaft construction area not available until December 2021	The above development will provide a consequential benefit for the subsequent projects by reducing the critical path impact. The EcoPark
Complete Sewer Diversion work	27-Sep-21	17-Feb-22	-19	Enables access to full EcoPark South work site	South team are additionally reviewing mitigations to manage impacts of the laydown area potentially being available later than planned.
Operational Commencement of RRF	25-Oct-22	03-May-23	-25	Enables transition of existing operations and commencement of Northern Area Clearance.	
Northern Area Clearance - Remediation Complete	31-Mar-23	09-Oct-23	-26	Enables the commencement of ERF construction works	
ERF – Commissioning – Take over (O&M engaged in operations)	19-Dec-25	17-Jul-26	-27	Requires construction to be complete.	The schedule does not currently reflect the developing scenarios for the northern area clearance and the ERF delivery strategy which will
EfW – Laydown Area Re-Instatement	19-Jun-30	18-Mar-31	-37	Enables new Eastern Access road to open to light traffic.	be incorporated in the next period, following review and agreement by the leadership team.
Southern Access Road – Works Complete	14-May-31	21-Jan-32	-36	Requires relocation of Transport Yard to Hawley Road	

Note — COVID-19 has had a clear and immediate impact on the NLHPP schedule with works temporarily suspended, and the knock-on deviation from baseline for the construction works. Less clear is the longer-term impacts of working in a socially distanced environment, and broader economic slowdowns - with potential effects on resource and material availability. Over the next couple of months, this will be assessed and new assumptions developed for the NLHPP programme, at the same time as incorporating activities highlighted in section 2.9



Risk Dashboard



Risk Register Summary Statistics

Summary Statistics	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20
In-period active risks	368	362	365	362	375	365
Risks raised in period	24	4	6	0	15	4
Risks closed in-period	10	10	3	3	2	14

Risk count by RAG (score) categorisation

		Risk distribution (Probability x Impact)						
	VH	5	4	3	2	1		
Ę	Н	1	14	19	16	2		
Probability	M	16	23	29	25	17		
Pro	L	22	35	28	18	16		
	VL	13	17	11	6	1		
		VL	L	M	Н	VH		
		Impact						

Key risks by impact

Project	Risk Event	Mitigation Control Plan
Programme Wide	Uncertain schedule and/or financial implications to NLHPP following recommencement of site-works	Develop agile scenario modelling by using 4D BIM to quickly understand site-wide impacts / traffic movements and improve decision making Progress strategy to de-link ERF from RRF and mitigate any schedule impacts
E3b Northern Area Clearance (NAC)	If the EcoPark South works are delayed it will have a direct impact on NAC programme and ERF.	1) Finalise development of agreed NAC programme and evaluate alternative operational strategies to determine the feasibility of earlier access to the Northern Area.
E7 ERF	Cost and time extent associated geotechnical (pile removal) works is still emerging	1) Undertake non-intrusive and intrusive survey works in Northern Area 2) Tender documentation to include factual information, with information updated progressively around respective site zones

Key risks by proximity (next 12 months)

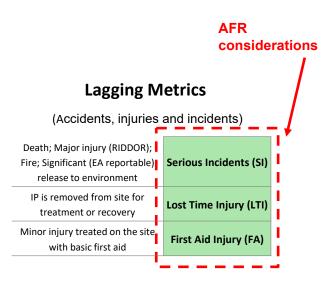
Project	Risk Event	Mitigation Control Plan
Programme Wide	Energetik may disrupt NLHPP works due to misalignments and conflicts in construction programme.	Close coordination to identify integrated technical solution that all parties can accept (evaluate new proposal) Progress proposed technical solution on SDMW
	Enabling works to support operations during EPSC may not be completed in time for construction start on site.	1) Agree programme to design, procure and construct EPSC enabling works pre-contract start on site.
E3a (EcoPark South Construction)	Scope for southern site utilities is immature at current and may change	Trial pits to be completed in order to validate utility model and communicate new information to Contractor. Acceptable approach to manage risk to be agreed and detailed through Negotiation phase of Procurement



Health, Safety & Wellbeing Dashboard (1 of 5)



Terminology	Definition	Further Explanation
Leading Metrics	Actions that help to prevent accidents, injuries and incidents	The Health & Safety Executive's (HSE) and others' research has shown that increasing awareness and noting of both good and bad health, safety and wellbeing issues by any and all of
Lagging Metrics	Accidents, injuries and incidents	the workforce (leading indicators) has shown a significant effect on the reduction in lost time accidents and other untoward events (lagging indicators).
Accident Frequency Rate (AFR)	[(Number of injuries in the period)/(Total hours worked during the period)] x 1,000,000. i.e. the number of injuries per million hours worked.	The AFR takes into account the first 3 lagging metrics: Serious Incident (SI), Lost Time Injury (LTI) and First Aid Injury (FA), as highlighted in an exert from the Lagging Metrics table.





Health, Safety & Wellbeing Dashboard (2 of 5)



Leading Metrics		Period May 2020					Period	Total
		E1A2	E1B	E2 A	E2B	Total	April 2020	to Date*
Any action or suggestion, idea, behaviour that is 'above and beyond' compliance	Positive Behaviour (PB)	2	2	1	0	5	6	89
Anything volunteered and not resulting from a formal assessment or audit. Positive or negative.	Safety Observation (SO)	2	2	1	0	5	5	52
Site visits by Senior Leadership	Leadership Engagement	0	0	0	0	0	0	0
Weekly site inspection visits by H&S advisors	Site inspection visits	4	4	2	0	10	6	-

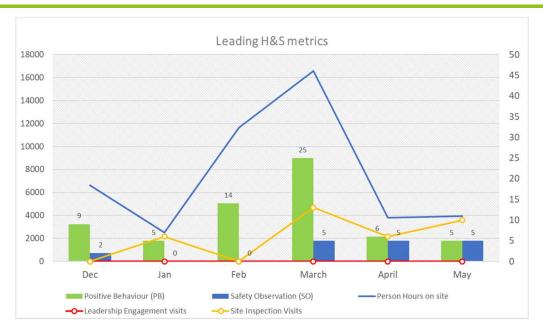


Figure represents the total hours worked on site against leading H&S metrics for each reporting period

		Period May 2020	Period April 2020	Total to Date*
Health, Safety and Wellbeing Alerts	HS&W Snapshots	4	4	15

HS&W Snapshot	Date Issued
It's all about the hygiene	1 May 2020
Mental Health Awareness Week	15 May 2020
Kindness	22 May 2020
Cleaning and Hygiene	29 May 2020

^{*}Total to date: from April 2019 to the end of the reporting period, ***Construction Leadership Council Site Operating Procedures



Health, Safety & Wellbeing Dashboard (3 of 5)



Lagging Matrice			Perio	d May	Period	Total to		
Lagging Metrics			E1B	E2A	E2B	Total	April 2020	Date*
Death; Major injury (RIDDOR); Fire; Significant (EA reportable) release to environment	Serious Incidents (SI)	0	0	0	0	0	0	0
IP is removed from site for treatment or recovery	Lost Time Injury (LTI)	0	0	0	0	0	0	1
Minor injury treated on the site with basic first aid	First Aid Injury (FA)	0	0	0	0	0	0	17
An event not causing harm, but has the potential to cause injury or ill health	Near Miss / Close Call (NM)	0	0	0	0	0	0	14
As RIDDOR	Dangerous Occurrence (DO)	0	0	0	0	0	0	4
Something outside Project control that causes us to take action e.g. nearby fire, flood, site protest, UXB	External Event with Impact (EXT)	2	2	1	0	5	6	34
A set of conditions or circumstances that have the potential to cause injury or ill health, including poor procedures	Undesired Circumstance (UC)	2	0	0	1	3	3	72
Abuse, physical threats or actions short of violence	Threatening Behaviour (TB)	0	0	0	0	0	0	0

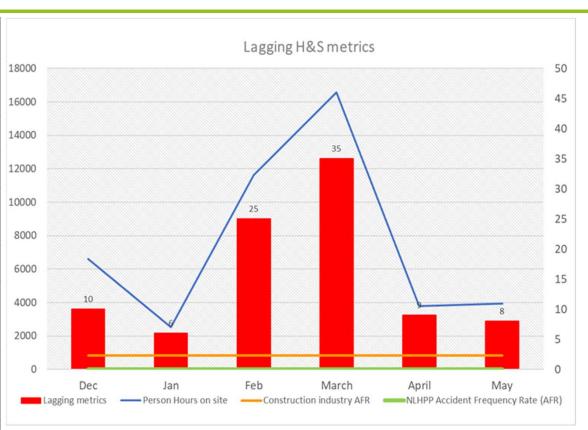


Figure represents the total hours worked on site against lagging H&S metrics for each reporting period and the NLHPP Accident Frequency Rate (AFR) comparing to the Construction industry AFR

^{*}Total to date: from April 2019 to the end of the reporting period



Health, Safety & Wellbeing Dashboard (4 of 5)



Accident	Frequency	Rate ((AFR**)
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NLHPP

Construction Industry

AFR for Reporting Period

0.00

2.32

** The Accident Frequency rate enables comparison of accident rates against hours worked rather than the number of accidents. The calculation is (number of accidents) / (number of hours worked on site) x 100 000. Thus, a project with 1 million hours worked and 3 LTIs would have an AFR of 0.3. The values shown above represent the AFR corresponding to the reporting period.

COVID –19 RELATED (according to CLC SOP***)			Period May 2020					Total
			E1B	E2A	E2B	Total	April 2020	to Date*
Incidents/Observations related to COVID-19 (positive, negative or observations)—already accounted for in the above incident reporting categories	COVID -19 related	2PB, 2SO, 1UC	0	150	0	6 (2PB , 3SO, 1UC)	9	32



This figure represents the COVID-19 related metrics for each reporting period



Health, Safety & Wellbeing Dashboard (5 of 5)



Examples of the identified key incidents on site, including those deemed of particular note by the Health and Safety Team for May, have been tabulated along with their respective response actions.

Site	Key Incidents on Site	Response/Action				
	(PB) Covid 19 arrangements continue to improve.	Good performance. Just one minor transgression of inadvertent breach of social distancing. Remobilisation plans are good and temperature checks on entry to site will be included.				
E1A2 - Laydown West	(EXT) Security on Lee Parkway	Following April's security and theft issue contractor's further measures have been effective. Site is being monitored by security patrol.				
	(EXT) Security from the river Lee navigation	Unauthorised access onto the site remains an issue. Two further incidents recorded in May.				
	(PB) Covid 19 arrangements	Good plans in place and opportunity has been taken to check, test and re-calibrate equipment.				
E1B - Northern Access	(EXT) Adjacent industrial units.	Adjacent industrial units generating significant noise (metal crushing) and dust (concrete crushing) issues Galldris monitoring.				
	(SO) Asbestos cement pipe	Asbestos cement pipe double bagged and stored securely awaiting removal.				
	(SO) Cable tracing	Cable tracing work is imminent.				
E2A - Transport Yard	Minor activity. Good Covid-19 management including temperature checks. Theft of survey equipment from van on site.					
	Visit carried out at the beginning of April assured us that the site was securely hoarded and in a safe condition.					
E2B - Enabling works	Unable to enter LEL property during most of May. Only one cursory HS&W check. No construction works on this site.					
	(UC) Temporary hoarding surrounding Wash Bay building partially collapsed over w/e of 23rd/24th May—evidence indicates due to unusually high winds.					