

Version for Audit and Corporate Governance Committee – 15 September 2021

Action Plan for Improvement in Response to Public Health Wales Data Breach

This document presents the Public Health Wales Action Plan that has been developed in response to the data breach incident that took place on the 30 August 2020. The action plan is in two parts. Part 1 details the immediate actions undertaken, primarily by the Communicable Disease Surveillance Centre (CDSC), upon identification of the data breach. Part 2 details the actions that will be undertaken in response to the recommendations outlined in the report of the external investigation report.

The actions are further delineated by timescale i.e. immediate, short term and longer term respectively, furthermore actions specifically for CDSC and longer term actions are identified separately.

Part 1: Remedial actions and improvements undertaken in response to the data breach in August 2020

Key:

Green – action complete

Blue – immediate/short term actions (Nov 2020-March 2021)

Yellow – longer term actions (April 2021 onwards)

	Action	Owner	Target Date
1	The table in question was removed from the Tableau public server to prevent further incidences of accidental publication.	CDSC	Completed
1.2	The use of tableau for disseminating individual-level identifiable data was immediately suspended.	CDSC	Completed
1.3	The publishing of external facing and internal facing reports were separated so that they are completed by different individuals at different times.	CDSC	Completed
1.4	Publication of the public facing dashboard is now the responsibility of more experienced senior staff.	CDSC	Completed
L.5	Relevant standard operating procedures were updated to emphasise that the correct server is selected.	CDSC	Completed
1.6	The Surveillance rota team and analysts were briefed on the data breach with emphasis on inherent risks and controls over the publication of data.	CDSC	Completed
1.7	The process for sharing person level identifiable data using secure NHS Wales systems was strengthened.	CDSC	Completed
L.8	The 'Out of hours' complaints procedures strengthened.	Assistant Director of	Completed
		Integrated	
		Governance	

Part 2: Action plan in response to the recommendations of the investigation into the data breach (November 2020)

Key:Overdue / not started*Actions to be implemented within existing organisational work plansIn progress# Additional actions identified for implementation by CDSC teamComplete

		•			nprehensive method of investigation numan error. In respect of the breach,	Traffic Light	
	WT should commit to a series of	System					
	cedures and Validation processe				• •		
res	ponsibilities, which will help to r	educe the Likeli			occurring.		
	Action	Owner	Target Date	Revised	Outcome		Update/Comments
				Target Date			
1.1	Develop a PHW organisational information handling audit plan with a programme of rolling controls and improvement	Assistant Director of Integrated Governance	December 2020		Improved assurance over information handling systems and processes. Significantly reduced risk of further		JL and SS to draft an action plan and template to go out to the business leads (1.1) Update 15/02/21 – Complete.
	audits and escalation process. *		November 2021		data breaches. More efficient and effective information handling procedures.		Update 15/02/21 - (C3C) Good engagement from most parts of the business except HP where it hasn't yet been possible to speak to the two information handling system
	Implement Year one of the audit plan.*						'owners'. Report to follow in due course. No immediate concerns, minor issues raised only. Update 09.03.21 arrangements being confirmed interviewing of CDSC/VPDP information owners now surge has reduced. Update 05.05.21 – To put some regulates in place to gain agreement from internal audits.

						Update 17.06.21 – Tools made available to use through internal audit. Update 22.07.21 – On target.
1.2	Develop and implement training on information risk handling for identified PHW information risk handling managers.*	Assistant Director of Integrated Governance	March 2021	September 2021	Managers can demonstrate working knowledge and competency in information risk handling	Update 15/02/21 – PHW information risk handling managers identified. Scope and development of training tool and materials underway. Update 09.03.21 – awaiting a realistic revised date for the implementation of the training plan Update 05.05.21 – SS to bring back an update on the training plan audit at the next meeting. Update 17.06.21 – SS TO PROVIDE UPDATE The compliance in CDSC is now improved. Update 22.07.21 – Training plan to be discussed at next meeting of the Business Leads group (8 Sept) and subsequently finalised for implementation (as part of the Integrated Governance IG pilot).
1.3	Develop a CDSC process for the approval of new/revised data requests and information release methods and practices.	Head of CDSC; Assistant Director of Integrated Governance	December 2020		A clear consistently applied process for data requests and information release. Any audit undertaken identify the process is working as expected. The viability of Information requests and the resultant release methods are assessed, approved and prioritised.	SC to audit (not immediately) the process that was put in place after breach to confirm it's working (1.3) Update 15/02/21 – There is a weekly ongoing check of all requests for data / information which is documented. Update 09.03.21 – further action to reduce the risk of internal and external processes

							Update 05.05.21 – Agreement that Organisational Learning application report completed by end of May. Update 22.07.21 – complete.
1.4	Revise and reissue the Small Numbers guidance to ensure that person level identifiable data is managed correctly.	Assistant Director of Integrated Governance	December 2020	June 2021	Audits undertaken to ensure that no small numbers are inappropriately published		Update 09/02/21 - Document in draft and now out for formal consultation with a view to being presented to BET in April 2021. Update 09/03/21 - will go out this week for formal consultation Update 05.05.21 - Document drafted, consultation completed and awaiting approval. Update 17.06.21 - Guidance completed and can now be issued. Update 22.07.21 - complete
	•		•		ed the workload and capacity of teams	Traffic	
	individuals with epidemiologica	•	•	•	_	Light	
	•	•	. However, PH	W should hav	e a continual review cycle of resource	System	
		+ hava a auaatau	unan a naihilitu		lamanda of pandamia analysis and		
•		t have a greater	responsibility	to meet the o	lemands of pandemic analysis and		
•	Action	Owner	Target Date	Revised Target Date	Outcome Optimum and resilient workforce		Update/Comments

							Update 22.07.21 – Recruitment is
							progressing.
2.2	Review the CDSC rota and	Head of	December		Efficient and effective working		Update 15/02/21 – Completed.
	out of hours workforce	CDSC	2020		arrangements for the CDSC team.		Ongoing recruitment of CDSC staff is
	arrangements and ensure						alleviating pressure on the rota and
	this complies with the						out of hours arrangements and is
	Working Time						proactively under review by CDSC
	Directive/Organisational						management.
	Policy. Ensure mechanisms						Update 09.03.21 - paper written to
	for the ongoing review of						confirm ongoing arrangements for
	workforce capacity are						workforce deployment in CDSC with
	included. [#]						continued risks for staff
							arrangements.
							Update 05.05.21 – Due to further
							arrangements, more effective
							rostering is now achieved
							Update 17.06.21 – Completed (This
							could be impacted by the
							reactivation of the wider
							organisation and the need for
							existing staff to take leave).
		•		•	SC's surveillance team. For example,	Traffic	
	•	• •			as long-term outputs. Any applicants	Light	
_		•	•		d with need, or PHW should apply its	System	
own	in order to ensure the surveilla		· · · · · · · · · · · · · · · · · · ·				
	Action	Owner	Target Date	Revised	Outcome		Update/Comments
				Target Date			
3.1	Undertake a peer review	Deputy	March	31	Gain further leaning to continually		Update 15/02/21 - Observatory staff
	process by a similar	Director of	2021	December	drive improvements.		are now working alongside CDSC for
	organisation/function to	Public Health		2021			the purposes of continual
	include the CDSCs:	Services					improvement. Formal process is
	surveillance team						under development for ongoing
	processes for outputs;						procedures and managing capacity
	 procedures to assess 						Update 09.03.21 – Proposed to
	report requests, their						move date element from March
							2021 to June 2021. Arrangements
							for peer review tbc

	necessity, longevity and expiration date; • procedures for maintaining capacity to address fluctuating workload Develop a process for ongoing review of the CDSC's surveillance team outputs. #						Update 05.05.21 – CDSC to consider whether internal arrangements can be part of peer review process by the due date. Update 17.06.21 – Scotland have agreed, timeline to be confirmed. Update 22.07.21 – Public Health Scotland are currently unable to commit to a timeline to undertake the peer review due to their ongoing workload. More discussions are required between the organisations to agree a date for the peer review process. Revised target date to be approved by the Executive Director or delegated to Deputy Director of Health Protection and Screening Services
3.2	learning from the peer review process.	Assistant Director of Integrated Governance	April 2021	31 December 2021	Continued assurance that current arrangements are comparable with good practice and are of good quality.	Traffic	Update 25/02/21 - Awaiting completion of 3.1 Update – Proposed date is dependent on 3.1 (potentially July 2021) Update 05.05.21 – This will form part of the broader Organisational learning report Update 17.06.21 – On target. Update 22.07.21 – as per 3.1
procinve purpub	cess for the specific internal and estigation and the timescale invo poses. As such, in due course, Ph lication tools.	external dashb lived did not all IW should cons he current dem	oards reference ow for an asse ider a full revious ands on the w	eed throughousesment of othew of its information		Light System	Update/Comments

4.1	Develop a programme to review the risks and controls within and around PHW's information handling software, analysis and publication tools (including cyber security risks).*	Informatics lead / Information Governance	June 2021	31 st October 2021	Public Health Wales risk handling process identifies risk promptly and effective controls to mitigate any risks are implemented.		Not yet started Update 09.03.21 – Gain an understanding that the Digital Vision Review will support these actions Update 05.05.21 – The publications best practice/guidance in place in Surveillance will be considered as
	cyper security risks).						Software update 05.05.21 – Not yet due. JL to discuss with Drew Evans. Update 17.06.21 – JL meeting with Head of IT imminent. Update 22.07.21 – JL to meet with Drew Evans by the end of September 2021.
4.2	Develop a framework to specify information handling system requirements including control specifications over publication software and processes for internal / external dashboards.*	Informatics / Information Governance	June 2021	31 ST October 2021	A consistent approach to procuring / developing all internal / external information systems is in place and applied.		Not yet started Update 09.03.21 – Gain an understanding that the Digital Vision Review will support these actions Update 05.05.21 – Not yet due. JL to discuss with Drew Evans. Update 17.06.21 – JL meeting with Head of IT imminent. Update 22.07.21 – JL to meet with Drew Evans as soon as possible.
				•	d its standard operating procedures ed with Recommendation 1), updated	Traffic Light	
and	approved to ensure they reflect	System					
	Action	Owner	Target Date	Revised Target Date	Outcome		Update/Comments

5.1	CDSC will produce and gain	Head of	January		SOPs are kept up to date and are	Produce a procedure for review,
	approval of a procedure to	CDSC	2021		effective controls to mitigate risks.	sign off and update SOPs within
	identify the governance					CDSC (5.1)
	arrangements for reviewing					Update 15/02/21 – There are
	and updating SOPs within					currently informal arrangements in
	CDSC. #					place as part of SMT but there is no
						formal process in place. This will be
						addressed as part of the Integrated
						Governance pilot project.
						Update 09.03.21 – procedures and
						sign off now in place. Any significant
	This will also feed in to the	Assistant	January	31st May		governance issues will be escalated
	organisational Integrated	Director of	2021	2021		to Health Protection IMT.
	Governance base line	Integrated				Update 09.03.21 – further
	assessment.*	Governance		June 2021		confirmation on the Integrated
						Governance baselining pilot
				September		proposed completion date.
				2021		Update 05.05.21 – To be included
						with the Organisational Learning
						report.
						Update 17.06.21 – May target date
						written in error. This is the ongoing
						Information Governance pilot
						learning.
						Update 22.07.21 – Currently on
						going as part of the Integrated
						Governance pilot due to report in
						October 2021.
5.2	Assess the feasibility of Office	Assistant	September	December	Information, documents and records	Update 15/02/21 – Initial
	365 to support PHW's	Director of	2021	2021	are managed and stored as per	discussions have taken place with
	document control/records	Integrated			regulation and best practice	Deputy Director of Operations and
	management system	Governance			guidance.	Head of Informatics.
	architecture.*					Update 09.03.21 – Paper being
						developed to be considered by BET
						in March/April2021

							Update 05.05.21 – With respect to feasibility of Office 365, the Assistant Director of Integrated Governance to liaise with the Head of IT. Update 17.06.21 – JL TO PROVIDE UPDATE Update 22.07.21 – On target.
							Update 05.05.21 – Records management – paper tabled at BET for consideration of progress and next steps. Update 17.06.21 – JL TO PROVIDE UPDATE Update 22.07.21 – On target.
	Undertake an options appraisal of a document control/records management system (Office 365 or alternative).*	Assistant Director of Integrated Governance	September 2021	December 2021			Update 05.05.21 – With respect to feasibility of Office 365, the Assistant Director of Integrated Governance to liaise with the Head of IT. Update 17.06.21 – The Records Management element picked up as above. Initial discussion with Board Business Unit to explore document control arrangements. Update 22.07.21 – On target.
the i	ommendation 6 - We were information 6 - We were information of following incident development and implementation to incident incident Management Procedure	Traffic Light System					
	Action	Owner	Target Date	Revised Target Date	Outcome		Update/Comments

6.1	Review and reissue the	Assistant	December	September	Recorded incidents are all addressed	The Incident Management Policy
	Incident Management Policy	Director of	2020	2021	efficiently within prescribed	and Procedure are on hold pending
	and Procedure including a	Integrated			timescales.	the implementation of the
	proactive internal	Governance				ofwcms.
	communications and					Update 09.03.21 – Incident
	awareness campaign.*					reporting training is now being
	, ,					delivered by the Risk and Incident
						Manager across the organisation
						Update 05.05.21 – Revised Incident
						Management Policy and Procedure
						in the process of being updated.
						Update 17.06.21 – Draft policy
						nearing completion. Further work
						required on the procedural
						documents.
						Update 22.07.21 – Draft policy
						completed awaiting review and
						Consultation. Work on Procedural
						documents required pending
						comments on the Policy.
6.2	Implement (when released)	Assistant	September		Consistent and timely reporting of	Update 9/2/21 - This has yet to be
	the all Wales data breach	Director of	2021		future data breaches or any other	released by the Information
	reporting tool.*	Integrated			adverse incidents.	Governance Management Advisory
		Governance				Group
						Update 05.05.21 – The tool is now
						being launched from NHS Wales and
						IGWG to consider an approach to
						implementation.
						Update 17.06.21 – Decision to be
						made about either continuing with
						the existing reporting tool or adopt
						the All Wales Data Breach tool at
						IGWG/BET.
						Update 22.07.21 – on track – to be
						discussed at IGWG meeting on 1
						September.

6.3	Implement a programme of ongoing refresher incident management and reporting training and ensure this training is embedded within staff induction.*	Assistant Director of Integrated Governance	January 2021		All staff fully aware and up to date with incident management and reporting procedures.		SS, JL and Lisa Whiteman to discuss refresher of incident management training. Prioritise the approach (6.3) Update 9/2/21 – Incident reporting training is now being delivered by the Risk and Incident Manager across the organisation. Update 05.05.21 – completed.
	ommendation 7 - PHW should co to ensure that urgent matters o		• •		'out of hours' emails and telephone who understands the escalation	Traffic Light	
	ess – at an early stage.		.о а арр.ор			System	
	Action	Owner	Target Date	Revised Target Date	Outcome		Update/Comments
7.1	The National Contact Centre (NCC) and National Health Protection Cell (NHPC) Oversight and Governance Groups will review and strengthen the 'out of hours' management of urgent matters by identifying and implementing improvements.	Assistant Director of Public Health Services	November 2020		An effective process is in place for handling out of hours concerns/issues/incidents accordingly and all NCC and NHPC staff comply with 'out of hours' procedures.		Send Action in item 7.1 to Andrew Jones and Zoe Wallace. CC: RBW Update 15/02/21 – Out of hours procedures are being strengthened, documented and communicated through the Integrated Governance pilot project. Update 05.05.21 – SOP completed. NCC now operating in hours Monday to Friday.
resp coul prot	onsible for processing and disse d include, for example, technica	minating data, a I elements relev ce training relev	and information vant to the sporant to their ro	on, have appro ecific software ble. This should	s, with the aim of ensuring staff opriate and targeted training. Training PHW uses and/or specific data delp staff develop an even greater	Traffic Light System	
	Action	Owner	Target Date	Revised Target Date	Outcome		Update/Comments
8.1	A training needs analysis will be undertaken for CDSC staff responsible for processing and disseminating data. #	Acting Director of People and OD/Assistant Director of	December 2020	Proposed date end of April 2021	All CDSC staff understand the data handling systems and comply with control procedures.		Training needs analysis to be completed - discuss with SS and Lisa Whiteman (8.1) Update 22/02/21 - A TNA template has been designed and shared with

		Integrated Governance		Proposed date end of May 2021 Proposed date August 2021		CDSC leads, with a view to them populating specific knowledge required and disseminating to staff for completion. This has not yet been done and a further meeting is scheduled for the 25 th February as a follow up and to agree any additional support needed to progress it. Update 09.03.21 - this is now in progress. Delay is due to previous surge and capacity. Proposed deadline end of April 2021. Update 05.05.21 – Due to resource challenges, this has been delayed by one month Update 17.06.21 – SS TO PROVIDE EXPLANATION WHY CHANGE OF DATE Update 22.07.21 – completed.
8.2	cDSC line managers and staff with responsibility for processing and disseminating data should ensure that mandatory Information Governance training is complete and up to date. #	Acting Director of People and OD/All Executive Directors	December 2020	Propose March 2021 Proposed date June 2021	CDSC information governance training up to date and compliant.	Work with Lisa Whiteman to put a communication out to the executive to review compliance. (8.2) Update 15/02/21 - Communication sent to all staff. At present there is no formal system to check compliance rather it relies on staff to do the right thing and ensure they are compliant. Compliance was audited after the data breach and was found at 100% There is a need to audit again. Report provided to CDSC 28.1.21 with updated compliance position. At least 8 staff non compliant. Update 09.03.21 – 85% compliant – expected completion for this cohort is end of March 2021

						7
						Update 05.05.21 – Due to issues with ESR, the proposed date extended to June 2021 for 100% compliance to be achieved. Update 17.06.21 – Ongoing arrangements in place to prompt staff to continue with training. Update 22.07.21 – Complete.
\$ 8.3	Following the completion of the CDSC Training Needs Analysis a training package and/or resources to be developed or procured that will address identified gaps.#	Acting Director of People and OD/Assistant Director of Integrated Governance	January 2021	Proposed date June 2021 Proposed date June 2021 Proposed date September 2021	Assurance that all technical and control elements of CDSC data handling systems are understood from an information governance perspective.	SS,SC and Lisa Whiteman to discuss resources, once the training analysis is complete. (8.3) Update 15/02/21 - Work ongoing but delayed due to work commitments As above, awaiting completion of TNA knowledge template and distribution to all relevant staff. Update 09.03.21 - work commenced between CDSC and People OD. Update 05.05.21 - Awaiting Training Needs Analysis to be completed by CDSC, which has been delayed due to resource challenges. Update 17.06.21 - SS TO PROVIDE UPDATE Update 22.07.21 - Training Needs Analysis nearing completion.