Name of Assessor	Henry Burridge	Approver	Graham Hughes					
Full description of the activity	The Schools' Air quality Monitoring for Health and Education p monitor network which is representative of the UK's schools a dioxide to evaluate classroom ventilation levels. In order to do so the project will send and gift air quality moni registration form. This study was given favourable opinion by Committee (SETREC) and approval by Washington Ochieng, He Imperial College London). The monitor request form and surre Ochieng, Head of Department (Civil and Environmental Engine Governance and Integrity Team (RGIT) at Imperial College London	ind through the networ itors to UK schools who the Science, Engineerin ead of Department (Civ ounding process was g eering, Imperial College	rk record measurements of carbon o request them via an online ng and Technology Research Ethics vil and Environmental Engineering, viven approval by Washington					
Location	Schools, primary and secondary, across the UK.							

## Section 2: Persons Affected

Who might be affected by this work?	Pupils, teachers, other school staff	How many people are affected?	Staff and pupils from up to 3000 schools

Section 3: Review

Date for Next Review of this Document	Date Document Reviewed	Reviewed by (print name)	Signature
07/04/2023			

Version 2.0 Control

## Section 4: Risk Assessment

## **Risk Matrix**

To find the risk score decide how severe (S) you think an outcome will be (minor to fatal) and note the score. Then decide on the probability (P) of it occurring (very unlikely to likely) and enter these in the risk assessment drop down boxes. A risk score will then be calculated. The raw risk will probably be high, but after you have considered the existing controls, the residual risk should fall. Any coloured residual risk level is usually unacceptable, and more controls will be needed. In some cases, e.g. if it's red, immediate action will be necessary.

RISK LEVEL					
Low	1,2,3				
Medium	4,6				
High	8,9				
Very High	12,16				

RISK SCORE			SEVERITY OF OUTCOMES (S)					
= S x P		Minor	Serious	Major	Fatal			
PROBABILITY	Very unlikely	1	2	3	4			
(P)	Unlikely	2	4	6	8			
	Possible	3	6	9	12			
	Likely	4	8	12	16			

	SEVERITY (S)						
Category	Examples	Score					
MINOR	Superficial injuries – cuts, bruises, mild skin irritation, mild aches and pains – requiring first aid only. Minor property damage.	1					
SERIOUS	More serious injuries or ill-health, requiring time off work or study or a hospital visit, e.g. burns, sprains, strains and short-term musculoskeletal disorders, cuts requiring stitches, back injuries, fractures to fingers or toes. More serious property damage	2					
MAJOR	Broken limbs, amputations, long-term health problems resulting from work, or acute illness requiring medical treatment, loss of consciousness, serious electric shock, loss of sight. Major property damage.	3					
FATAL	Injury or ill-health which leads to death either at the time or soon after the incident, or eventually, as in the case of certain occupational diseases, such as asbestos-related cancers.	4					

PROBABILITY (P) - The likelihood of a safety event happening.					
Category	Examples (for guidance only – some or all may apply for each category).	Score			
VERY	Good control measures are in place. Control measures do not rely on a person using them (I.e. personal	1			
UNLIKELY	compliance). Controls are very unlikely to break down. People are very rarely in this area or rarely engage in this activity.				
UNLIKELY	Reasonable control measures are in place but they do rely on a person using them (some room for human error).	2			
	People are not often in this area / do not often engage in this activity / this situation is unlikely.				
POSSIBLE	Inadequate controls are in place, or likely to break down if not maintained. Controls rely on personal compliance. People are sometimes in this area or sometimes engage in this activity / this situation sometimes arises.	3			
LIKELY	Poor or no controls in place. Heavy reliance on personal compliance (lots of room for human error). People are not often in this area / engage in this activity on a regular basis / this situation often arises.	4			

		Raw risk (with no control measures)				Residual risk (control measures in place)		
No	Description of Hazard	Raw Severity (S)	Raw probability (P)	Raw risk (S x P)	Controls	Residual Severity (S)	Residual probability (P)	Residu al risk (S x P)
1	Risk of mild electrocution - the devices are powered by a 5V DC supply at 1.0- 2.4 amps; giving a power draw of 5-12 watts	2	4	8	Standard Operating Procedures (SOP) details appropriate procedures including the order in which devices are plugged and switched, and details like keeping hands clean and dry.	2	1	2

2	Trip hazard - the air quality monitor's cable provides a potential trip hazard.	2	4	8	SOP details that care with the cable positioning must be taken when setting up and when moving the device.	2	1	2
3	Injury due to the resulting activities	2	4	8	SOP details guidance to avoid any excessive activity and to ensure awareness of surroundings and the movement of others.	2	1	2
4	Monitor falling off the wall	2	3	6	SOP details guidance relating to monitor placement. Recommended that SAMHE monitors are placed vertically on a flat surface away from its edges. Some models include two plastic bases, which can be used to stabilise the monitor. If schools elect to attach the monitor to a wall SOP details suggested safe ways of doing so. If wall mounted, monitor locations should take into consideration, and so far as possible avoid, risk of monitor falling and causing injury.	2	1	2

Section 5: Assessment Sign-Off								
Assessor's Signature	<i>Bt</i>	Position	Senior Lecturer in Fluid Mechanics, Department of Civil and Environmental Engineering, Imperial College London.					
Print Name	Henry Burridge	Date	21 <sup>st</sup> June 2022					
Additional Comments								