

Site Specific Plan of Works For Individual Areas



GILPIN
ENVIRONMENTAL

KITCHEN AIB PANEL

194 Lynher House
Mountwise
Plymouth
PL1 4HH



BUILDING:	194 Lynher House
LOCATION: (Room/s Reference)	Kitchen
ENCLOSURE:	YES
PARTIAL ENCLOSURE:	NO

SCOPE OF WORKS

The following Asbestos Containing Materials (ACM's) are scheduled for removal within this project
Sample Reference as per Survey.

Sample Number	Product Type	Location	Form	Quantity	Condition	Fixings
No Sample	Asbestos Insulating Board	Kitchen, AIB Panel	Chrysotile & Amosite	1m ²	Good	Nailed
	Choose an item.		Choose an item.	1m ²	Choose an item.	Choose an item.
	Choose an item.		Choose an item.	1m ²	Choose an item.	Choose an item.
	Choose an item.		Choose an item.	1m ²	Choose an item.	Choose an item.
	Choose an item.		Choose an item.	1m ²	Choose an item.	Choose an item.

CONTRACT NUMBER: PCH060

Representative	Job Title	Signature	Date
Prepared by: Rob Burley	Technical Manager		
Approved by:			
Issued to:			
<u>Works Completed</u> Name:	Client/ Main Contractor/ Representative on Site		

Version	Revised By	Job Title	Reason for Change	Date
001	Robert Burley	Technical Manager	Original	

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 GILPIN ENVIRONMENTAL	Site-Specific Plan of Works & Risk Assessments 194 Lynher House, Plymouth	Contract No: PCH060
		Date: 13/07/2020

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1.0 Enclosure Details

1.1 Enclosure Dimensions and Airflow Requirements

Enclosure Dimensions (M)				Ducting Length (M)	Ducting 90° Corners (No.)	Enclosures greater than 120m3 Minimum NPU Requirements			
Section 1				Wall Void		Roving Head Ducting		Roving Head 90° Corners	
Width	Length	Height	Volume	Width	Length	Height	Volume	For 8 Air Changes Per Hour	For 10 Air Changes Per Hour
2.5	2.5	2.2	13.75				0		
Section 2				Airlock		Roving Head Ducting		Roving Head Ducting 90° Corners	
Width	Length	Height	Volume	Width	Length	Height	Volume	Minimum NPU Requirements (ft³/min)	
			0	1	3	2	6	N/A	N/A
Section 3				Baglock		Exhaust Ducting		Exhaust Ducting 90° Corners	
Width	Length	Height	Volume	Width	Length	Height	Volume	Minimum NPU Requirements (m³/hour)	
			0				0	N/A	N/A
Section 4				Pitched Roof Space		Exhaust Ducting		Exhaust Ducting 90° Corners	
Width	Length	Height	Volume	Width	Length	Height	Volume	Enclosures less than 120m3 Minimum NPU Requirements Based on air change requirement of 1000m3/hour	
			0				0	Total Minimum Airflow Required (m³/hour)	Total Minimum Airflow Required (ft³/min)
Ceiling Void				Total Enclosure Volume		Total Length of Ducting Ducting		Total Number of 90° Corners	
Width	Length	Height	Volume	m³	ft³				
			0	19.75	698	3		2	
								Number of Air Changes	
								51	

1.2 Enclosure Construction

Use Structure of Area	YES	1000-Gauge Polythene	YES	Fixed Scaffold	NO
2x2 Timber Batten	NO	Fire Retardant Polythene	NO	Licensed Scaffolders	NO
2x4 Timber Batten	NO	Double Skinned Polythene	NO	Vision Panels	YES
Timber Boarding	NO	Correx Sheeting	YES	CCTV System	YES
Safety Signage	YES	Temporary Works Design	NO	Floor Protection	YES

1.3 DCU Direct Attachment

DCU Direct Attachment	NO
Where direct attachment is not used, please provide a full justification for this;	
Due to the enclosure being located on the upper floors of Lynher House, the use of direct attachment is not practicable.	

1.4 Additional Air Inlets

Additional Air Inlets Required	NO
Each Airlock and Baglock allow 1,500 m³ air through into the enclosure. Where enclosure volume is greater than 3,000 m³ one additional air inlet is to be added to the enclosure for every additional 1,500 m³ of air required. Air inlets to be highlighted on the Plan of Work enclosure diagram	
Required Air Movement (m³/Hour)	1,070
Number of Additional Air Inlets Required	0

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1.5 Negative Pressure Unit (NPU) Requirements

Number of NPU's	1	Roving Head	NO	Extraction Ducting	YES
Type of NPU's	2,000	Digital Reading	YES	Quill X-Filter	NO
Where it is not reasonably practicable to vent directly to atmosphere please provide a full justification for this;					

1.6 Airlock Setup Requirements

3-Stage Airlock (1m x 1m x 2m)	YES	3-Stage Airlock (undersized)	NO	3-Stage Airlock (oversized)	NO
Where undersized Airlocks (less than 1m x 1m x 2m) are used please give a full justification;					
3-Stage Baglock (1m x 1m x 2m)	NO	3-Stage Baglock (undersized)	NO	3-Stage Baglock (oversized)	NO
Where a Baglock is not to be used please give a full justification;					
Due to space restrictions the use of a Baglock will not be practicable within this apartment.					

A weighted half cover should be attached to the front of the Airlock containing the following warning signage (*this is not required on a Baglock*);

- Gilpin Environmental Ltd 3-Part Warning Sign
- Respirator Zone Sign
- Airlock Sign
- CCTV Warning Signage (*where CCTV is in operation*)



1.7 3-Stage Airlock Equipment Requirements

With each stage of the 3-Stage Airlock the following items must be present for the purpose of decontamination;

Stage 1 (Clean End)
• Looped tape for hanging Transit Coveralls (White)
Stage 2 (Intermediate Airlock)
• UN Approved Red Asbestos Waste Bag for Working Coveralls (Red)
Stage 3 (Dirty End)
• Hand Spray Bottle filled with Astrip/Water (1/10 Ratio) Solution Mix with Sponge for RPE Cleaning
• Bucket half filled with Astrip/Water (1/10 Ratio) Solution Mix with Sponge for Footwear Cleaning
• Airhorn
• Vision Panel

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2.0 UKAS Accredited Analyst Project Schedule

2.1 Air Monitoring Strategy

Type of Monitoring	Required	Comment (if not required please justify the reason why)																				
Personal Air Monitoring	YES	State Names of Persons monitoring is to be carried out on <table><thead><tr><th>Name of Operative</th><th>Planned Date of Monitoring</th><th>Amended Date of Monitoring</th></tr></thead><tbody><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></tbody></table>			Name of Operative	Planned Date of Monitoring	Amended Date of Monitoring															
Name of Operative	Planned Date of Monitoring				Amended Date of Monitoring																	
Personal Monitoring where possible should be carried out over a 4-hour period. <i>This may not be possible on some jobs due to duration.</i>																						
Background Air Monitoring	YES																					
Leak Air Monitoring	YES																					

2.2 Air Monitoring Strategy

No. Pumps	1	2	3	4	5	6	7	8	9	10	11	12
Volume (m ³)	<10	10-128	129-273	274-499	500-823	824-1265	1266-1842	1843-2572	2573-3473	3474-4562	4563-5859	5860-7381

UKAS Analytical Company Undertaking the 4-Stage Clearance	Volume (m ³)	Estimated Duration of Visual	No of Air Pumps Required	Date of Air Test	Actual Duration of Visual
Scientific Services Ltd	19.75	30 Minutes	2		
Should the visual take considerably longer, or shorter than the estimated duration, Supervisor to justify in comments box below;					

3.0 Smoke Testing

HOLD POINT

Confirmation the enclosure has been Smoke Tested and has been witnessed by a third party prior to going 'Live' and before any removal works take place. **Smoke Test MUST be filmed by the Supervisor on his company phone and a copy of the video is to be sent to the office to be stored in the Job File before works proceed.**

Name	Position	Signature	Date
	Site Supervisor		
	Witness		

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4.0 Transit and Waste Routes

If not Directly Attached to the enclosure, is the Transit Route as short as possible?	YES					
Does the Transit Route Pass Through Occupied Areas?	YES					
If the Transit or Waste Routes pass through occupied areas, what measures are in place to prevent interaction or potential exposure with others?						
As personnel and waste is being transited to and from the area will be accompanied by the Site Supervisor to eliminate where possible, or where un-avoided control and reduce interaction with the public. The lift will be managed by Gilpin Environmental for transiting personnel and waste. The Supervisor will always need to be mindful of the buildings occupants at all times and minimise interactions at all times.						
Site Sketch Plan						
KEY						
Transit Route	Waste Route	DCU	Waste Receptacle	Water	Generator	Mains 240v Power

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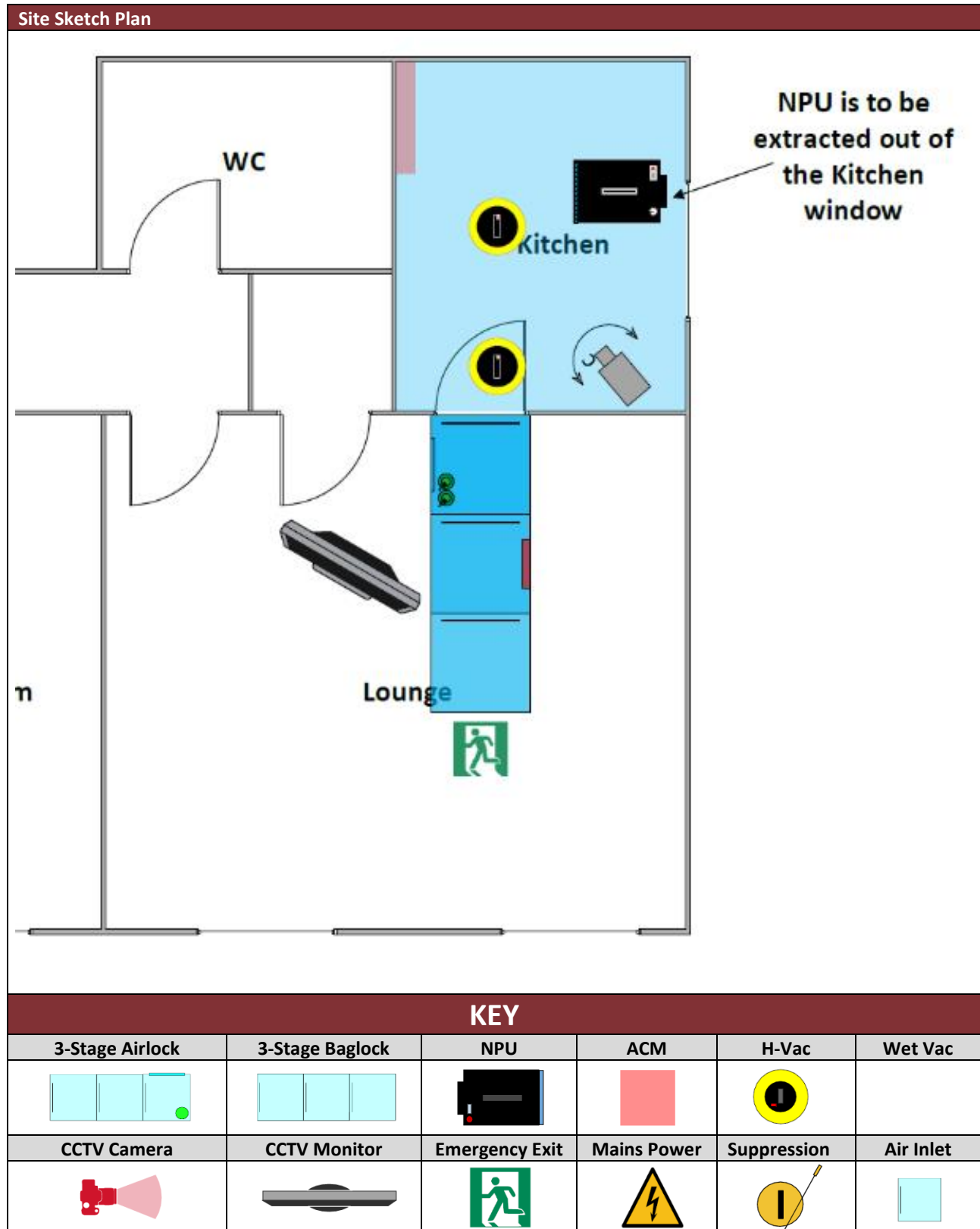
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5.0 Enclosure Layout



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6.0 Photographs of Working Area

Right elevator to be used to access the 15th Floor
where apartment 194 is located



Key-a-Like is to be used



AIB panel next to the gas meter has been highlighted
with cloth tape and AIB stickers



Gas meter to be isolated and removed to allow easy
access to the AIB panel



Operatives to remove the worktops to gain access to
the AIB panel below



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7.0 Methodology

7.1 Entering a Live Enclosure

Clean End (DCU)
- Remove Clothing - Put on Red Working Coveralls - Check RPE - RPE Flow Rate Test - Fit RPE - Check RPE in Mirror 10 sec Fit Test - Put on White Transit Coveralls - Put Both Hoods Up - Pass into Shower
Shower (DCU)
Pass into Dirty End
Dirty End (DCU)
- Put on White Transit Boots - Exit DCU and Proceed Along Transit Route to Enclosure 3-Stage Airlock
Clean End (3-Stage Airlock)
- Remove White Transit Boots - Remove White Transit Coveralls and Hang Up - Proceed into Middle Stage
Middle Stage (3-Stage Airlock)
- Put on Black Working Boots - Proceed into Enclosure
Dirty End (3-Stage Airlock)
Proceed into Enclosure

7.2 Quantity of Waste to be Generated

How much waste is estimated to be generated during these works in kg?	55Kg
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7.3 Oversized or Abnormal Waste Parcels

Is there likely to be oversized or Abnormal Waste Parcels generated during these works?	NO
Will the Enclosure require Airlocks/Baglock larger than 1m x 1m x 2m?	NO
Will these Waste Parcels be removed from the Enclosure during the works?	NO
If remaining in the Enclosure, will these be inspected by a UKAS analyst during the 4-Stage Clearance?	NO

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7.4 Removal Methodology

- 7.1** The AIB Panel is to be heavily saturated prior to removal using a 1-10 astrip/water mixture, applied from a handheld garden type sprayer.
- 7.2** During removal of all AIB materials, a fine mist spray of surfactant solution is to be applied to dampen down any unexpected fibre release from the material. Removal is to be undertaken using a claw hammer or flat bar. Where possible, nails are to be located and pulled out to lower the board. Where nails cannot be removed, the board will need to be prised down from the timber fixings which is likely to result in breakages.
- 7.3** Where nails can be removed, nails are to be carefully removed using a LEV technique with a Class-H Vacuum and placed directly into an asbestos waste bag.
- 7.4** It is reasonably foreseeable that breakages during removal may occur. In this instance, a LEV technique will be adopted, backed by a mist spray of surfactant.
- 7.5** Once all the AIB has been removed, it is to be bagged and placed in the bagging area of the airlock, ready for double bagging and removal to the designated waste skip on site.

7.6 Fine Clean of Live Enclosure

- 7.7** Following the removal of all Asbestos Containing Materials (ACM's) within a live enclosure the team will then need to carry out a thorough clean of the enclosure in preparation for a UKAS accredited analyst to enter the working area and begin his clearance procedures.
- 7.8** The fine clean should be carried out in the following order;
- Start at high level. Timber, metal or concrete surfaces at high level should be cleaned with wire brushes to remove any asbestos residues, trapped fibres, and even cobwebs.
 - Where material has been screwed/nailed into timber, and the timber is staying in situ, all screw/nail holes should be bored out to remove any trapped asbestos fibres. This should be done with a 110v drill with an oversized wood drill bit backed by a Class-H Vacuum. When boring out timbers, drills should be set onto a low setting to reduce the release of asbestos fibres.
 - All surfaces are then to be cleaned using a Class-H Vacuum with a brush attachment. The brush attachment will prevent polythene from being sucked up. Surfaces such as ceilings, ledges, window cills, walls, and floors should be subject to vacuuming.
 - The fine clean should start at the airlocks working towards the NPU. Once all surfaces have been cleaned, the dirty filter in the NPU should be removed and placed directly into a red bag, and a clean filter placed into the NPU.
 - Operatives should now spray down the entire working area with a surfactant mix from a hand-held sprayer or airless sprayer depending on the size of the enclosure. Then using dry rags, working from the NPU towards the airlocks all surfaces should be wiped clean.
 - Airlocks should be thoroughly cleaned as part of the fine clean process, and the water buckets should be changed for fresh water if dirty (water buckets should be cleaned on a daily basis).
 - The use of any sealants on any part of the working enclosure such as, but not limited to, PVA, WD40, Diesel, or Hair Spray, is strictly prohibited. Using sealants within the enclosure will result in the clearance being failed.**

Gilpin Environmental Ltd, The Horsefields, Clay Pits Way, Newton Abbot, TQ12 3RR	Page 10 of 14	Site Supervisor Initials:	
	Template Ref: GEL_006	Version: 3.0	Issue Date: 13/07/2020

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- Once the area has been suitably cleaned the Asbestos Supervisor MUST enter the enclosure and inspect the cleanliness of all areas. Only when the Supervisor is satisfied that all Asbestos Containing Materials (ACM's) have been removed should he instruct a UKAS accredited analyst to attend site to carry out clearance testing.

7.9 Leaving a Live Enclosure

Dirty End (3-Stage Airlock)
- Buddy Vac using H-Type Vacuum with Brush Attachment within Enclosure - Wash Black Working Boots in Bucket with Sponge - Use Hand Sprayer and Rags to Clean RPE - Proceed into Middle Stage
Middle Stage (3-Stage Airlock)
- Remove Red Working Coveralls and Place into Red Asbestos Waste Bag - Remove Black Working Boots - Proceed into Clean End
Clean End (3-Stage Airlock)
- Put on White Transit Coveralls - Put on White Transit Boots - Proceed Along Transit Route to Decontamination Unit (DCU)
Dirty End (DCU)
- Remove White Transit Boots - Remove White Transit Coveralls and Place in Red Asbestos Waste Bag - Proceed into Shower
Shower (DCU)
- Shower with RPE for 2 Minutes 30 Seconds - Remove RPE Filter and Flood Under Shower - Place Filter into Red Waste Bag in Dirty End (<i>through Postbox if available</i>) - Remove RPE and Thoroughly Clean - Shower Using Liquid Soap and Nail Brush for a further 2 Minutes 30 Seconds - Dry Body and Place Used Decon Towels into Red Bag in Dirty End (<i>through Postbox if available</i>) - Proceed into Clean End
Clean End (DCU)
- Dry Body - Dry RPE and Place Directly into Rigid Container - Place Decon Towels Used in Clean End into Clear Waste Bags (<i>NOT Asbestos Bags</i>) - Put on Clothes and Site PPE (Safety Helmet, Safety Boots, etc) - Exit the Decontamination Unit (DCU)

7.10 Asbestos Enclosure Handover

HOLD POINT			
Confirmation the ' <i>Asbestos Enclosure Handover Form</i> ' has been completed in preparation for the UKAS accredited analyst to safely begin the 4-stage clearance process.			
Name	Position	Signature	Date
	<i>Site Supervisor</i>		

Brief given by:

Name	Position	Company	Signature	Date

[illegible]

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Appendix B - Site Based Risk Assessment

Site:		Start Date:	
GE:		Finish Date:	
Client:		Signature:	
Site Supervisor:		Date:	

The Works / Reason for change:

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Methodology: *(include drawing if change to enclosure layout)*

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Control Measures to be implemented:

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[illegible]