

From: [Darren Arkins](#)
To: [Jim Fanning](#)
Subject: FW: RAMS and plan of work drawings for Kilsaran Remediation works @ Sea Road, Kilcoole, Wicklow
Date: 03 June 2016 09:00:52
Attachments: [RAMS for Sea Kilsaran Remediation works @ Sea Road, Kilcoole, Wicklow.doc](#)
[Plan of work layouts for Kilsaran Remediation works Sea Road, Kilcoole, Wicklow.pdf](#)

From: [redacted] [mailto:[redacted]@gravityconstruction.ie]
Sent: 02 June 2016 21:27
To: Darren Arkins; jim.fanning@hsa.ie
Cc: [redacted]@awnconsulting.com
Subject: RAMS and plan of work drawings for Kilsaran Remediation works @ Sea Road, Kilcoole, Wicklow

Hi Darren/Jim

Further to our meeting with [redacted] & [redacted] this eve

They have asked me to forward you guys our preliminary Methodology and plan layouts for the Sea Road Project that Remediation works are due to commence on next week

These cover the majority of the works that are likely to be carried out throughout the duration off the works

On review of the above can you give us ([redacted] and I) a shout in the office ([redacted] morn to discuss the same

Thank you guys

Kind regards,

[redacted]

[redacted]



**Barntown
Wexford
Ireland**

Mob. [+353 \(0\) 87](tel:+353087) [REDACTED]

Office 1890 111 222

Email [REDACTED] [gravityconstruction.ie](mailto:[REDACTED]@gravityconstruction.ie)

Web www.gravityconstruction.ie

Asbestos Removal & Disposal / Land Remediation / Cladding & Re-Roofing / Steel Erecting & Rigging / ESB
Pylons

Project; Kilsaran Remediation Works, @ Sea Road, Kilcoole, Co. Wicklow

Contractor Gravity Construction	Name: [REDACTED]	Address: Barnstown, Co. Wexford	Tel: 1890 111 222
			Fax: E-mail: info@gravityconstruction.ie
Project Name	Kilsaran Quarry		
Description of the Task/Activity	Removal & Disposal of Asbestos Materials and Contaminated Soil		
Legislation, Codes of Practice /standards Consulted:	Safety, Health & Welfare at Work Act 2005 – General Application Regulations 2007 Construction Regulations 2013 Safety, Health and Welfare at Work (Exposure to Asbestos) Regulations 2006-2010		
Site Address/Location:	Sea Road, Kilcoole, Co. Wicklow	Start Date: 7 th June 2016	Finish Date: 28 th . June 2016
			Weather & Conditions permitting
Personnel Involved	Name	Role/Trade	
	[REDACTED]	Contracts Manager	
	[REDACTED]	Asbestos removal	
	[REDACTED]	Asbestos removal	
	[REDACTED]	Foreman Asbestos removal Foreman	
Site Supervisor:	[REDACTED]	Tel:	087 [REDACTED]
Safety Officer		Tel:	
Key Plant & Tools	Water/Surfactant Mist Spray Units 360° Excavator, Fork Truck/Teleporter Mobile Decontamination Unit Mobile Welfare Unit Harris Security Fencing Water Bowser		
Key Materials	UN Approved FIBC asbestos waste bags 1000 Gauge Polythene/3" cloth tape/ red & clear asbestos waste sacks All PPE Equipment – type 5/6 coveralls, ½ face orinasal P3 respirator, safety boots, gloves. Asbestos warning signs/barrier tape		
Other Essential Equipment:	H.E.P.A. filtered Vacuums Hand tools, shovels etc. Colour Coded overalls will be utilized: White: General Works (Non Asbestos) Blue: Transit Procedures (Non Asbestos) Red: Asbestos Works		
Specific Identified Residual Hazards: (or refer to the task specific risk assessment(s))	Asbestos Containing Materials and Contaminated Soil		













Project; Kilsaran Remediation Works, @ Sea Road, Kilcoole, Co. Wicklow


<p>Specific Staff Training</p>	<p>Manual handling, Asbestos awareness training, Safepass, Mask Face Fitting Training</p>
<p>Sequence of Operations:</p>	<p><u>General</u></p> <p>The Contracts Manager will explain the full scope works and details of the plan of works to the supervisor.</p> <p>The supervisor is to read this POW (Plan of Works) and risk assessments to all operatives engaged in the project and if required afford them time to read these documents themselves. The supervisor is to ensure that all operatives engaged with this project sign and date the confirmation sheet located to back of this POW. This confirmation is a statement that they fully understand the project in hand, POW and risk assessment.</p> <p>The supervisor will carry out tool box talk on all relevant subjects prior to the project commencing.</p> <p><u>Site Establishment</u></p> <p>Once on site, Gravity Operatives will set up a working area to enable safe access and egress for the operations crew. All necessary Security fencing will be erected to ensure sufficient area is allowed for site works and storage of bagged waste materials and only authorised personnel may enter.</p> <p>Signage will be displayed warning of the Hazardous nature of the materials being removed, the Restrictions upon those entering site and the Protective equipment to be worn while within the confined area.</p> <p>All personnel will be supplied with the appropriate PPE equipment as required under current Health & Safety Legislation.</p> <p>Operatives involved in site set-up and non- asbestos removal works will wear White Disposable type 5/6 overalls. Site Establishment will consist of a Mobile Decontamination unit; Mobile Welfare Unit and Water Bowser located within a Safe/Clean area identified by the Site Analyst.</p> <p><u>Access to the Work area</u></p> <p>Access to the work/contaminated area shall be via The Clean End of a three stage decontamination unit where operatives shall remove their clothing and dress in Red Disposal overalls and work boots.</p> <p>The operatives will pass through the Middle/Shower Section put on their Respirator before continuing to the Dirty End where they will put on Red overalls and exit to the work area.</p> <p><u>Work Procedure</u></p> <p>A screened area will be constructed on individual sections of the Contaminated aggregate, this identify the area to be worked and allow for Mist Spray Walling systems to be attached to the framework.</p> <p>The Asbestos material shall be continuously mist sprayed with a Mixture of water and surfactant to reduce the possibility of fibre becoming airborne. Every effort will be made to prevent excessive volumes of mixture being applied to prevent run-off occurring.</p> <p>The waste material will be extracted using a small loading mechanical digger and loaded into approved waste disposal one tonne bags and sealed.</p> <p>The bagged materials will then be transported by teleporter and stored within a designated clean area on site on top of polythene sheeting.</p> <p>Once the site has been cleared of the waste and contaminated materials, the area will be offered up to the site analyst for inspection and testing.</p>

Project; Kilsaran Remediation Works, @ Sea Road, Kilcoole, Co. Wicklow

	<p><u>Decontamination Procedures</u></p> <p>Operatives returning from the work area will enter the Dirty End of the decontamination unit. They will remove and bag their overalls as asbestos waste before entering the middle section of the unit where they will shower before removing their respirator. Once showered they will then pass through to the Clean End of the unit where they can then put on their street cloths before exiting the unit.</p> <p><u>Completion of the Works</u></p> <p>Upon receiving approval from the analyst the bags containing the waste materials will be mist sprayed to ensure any residual dust is removed from the outside of the bags prior to being removed from site for safe disposal.</p> <p>All plant equipment and tools used during the removal operations will be placed on polythene sheeting for decontamination with the water/surfactant prior to being moved off site. All polythene sheeting used during the segregation of the site and spraying of the waste bags and equipment shall be bagged as contaminated waste and disposed of along with other contaminated materials. Air Monitoring will be carried out within the Decontamination unit prior to disconnection and removal from site.</p> <p><u>Waste Disposal</u></p> <p>All bagged waste materials will be loaded onto curtain sided flatbed trucks by on site by teleporter for transportation to the Clients Site at Ballynaclare Quarry, Co. Wicklow.</p> <p>Once the area has been passed as Asbestos Free all plant equipment and waste materials will be moved off site and the area returned for normal occupation.</p> <p><u>Air Monitoring</u></p> <p>Daily Air Monitoring will be carried out on site by an Independent Analysis this will include: Background reassurance monitoring, personnel monitoring within the work zone and reassurance Air Monitoring within the Decontamination Unit.</p>
<p>Method of Access and Egress to the work area:</p>	<p>(i.e. Ladders/MEWPS/Scaffold/Trestles/Step Ladder, etc.) Explained above</p>
<p>Fall Protection Measures: (Where work at height cannot be eliminated – consider both Personnel & Materials.</p>	<p>(i.e. Guard Rails/Toe Boards/Brick Guard/Safety Harnesses/Exclusion Zones, etc.) N/A</p>

Project; Kilsaran Remediation Works, @ Sea Road, Kilcoole, Co. Wicklow

Hazardous Substances: (Attach MSDS if required)							
	Very Toxic	Harmful/ Irritant	Corrosive	Dangerous For the environment	Oxidizing	Highly flammable	Explosives
Applicable? No:	No	Yes	No	Yes	No	No	No
Storage Arrangements:	All asbestos waste will be removed from site at the end of the works. The waste is then transferred to our transfer station where it awaits shipping to Germany as agreed by HSA. The waste consignment note will then be sent and forwarded to the client once we receive the same.						
Details of Permits to Work:	N/A						
SWL's:	(Detail any limits on the loadings applicable to temporary plant/equipment or fixed elements of the structure where the work is taking place) All SWL will be detailed on all machinery certification which will be fully adhered to and issued to the client prior to commencement of works						
Required Personnel Protective Equip.:							Other: 1. Hi Vis Vest Yes 2. Overalls Type 5/6 Yes
	Safety Boots	Hard Hats	Safety Gloves	Hearing Protection	Eye Protection	Respiratory Protection	
YES/ NO	Yes	Yes	Yes	If required	No	Yes	Half face Orinasal P3 Mask

<p>Emergency Procedures:</p> <p>Emergency procedures to be followed will be as per site rules. In the event of a fire, priority will be given to evacuating the work area by the quickest possible route. Staff will familiarise themselves with fire exit routes and location of firefighting equipment and first aid facilities prior to commencement of the asbestos survey. The main priority in an emergency situation is to deal with any life-threatening situation, which could include the effects of a fire or injury to staff or members of the public. All work will cease immediately and the emergency addressed.</p> <p>_____</p> <p>All Emergency Services: Dial 112</p>	<p>Gravity Construction Accident Reporting Protocol.</p> <p>All accidents and incidents will be advised to Gravity Construction Management & Kilsaran Management immediately to facilitate accident investigation and preservation of evidence. A copy of the Contractors investigation report on all accidents and incidents shall be provided to project Health & Safety officer on completion. Following any dangerous occurrences or accident, the relevant Office of the Health and Safety Authority or Local Authority will be informed.</p>	
	<p></p> <p>First Aid Facilities:</p>	<p>Name of On-Site First Aider: TBC</p>
		<p>Gravity Construction Site Vehicle</p>

Project; Kilsaran Remediation Works, @ Sea Road, Kilcoole, Co. Wicklow

	First Aid Box Location: Decon Unit	
	Location of Nearest Hospital:	Loughlinstown
Welfare Requirements	Decontamination Unit and Welfare facilities will be Supplied by Gravity on site.	
Services to be supplied by Others	Waste Transportation TBC	
Other information & Comments	No	
Method Statement & Risk Assessment prepared by.	[REDACTED]	

Kilsaran Quarry Details. Site Manager: [REDACTED] Site Safety Officer: TBC Site First Aider: TBC	Contractor Details. Gravity Construction Ltd, Barntown, Wexford Contractor Manager: [REDACTED] Contractor Safety Officer: TBA Contractor First Aider: TBA
Health & Safety Authority - Head Office – 614 7000 - Info tel – 614 7024	Other

All work will be undertaken by qualified competent persons with experience of the type of work described above, and in all cases in full accordance with safety procedures specified in the company's Health and Safety Policy. A site safety inspection will be carried out by us as directed by the site management team

Project; Kilsaran Remediation Works, @ Sea Road, Kilcoole, Co. Wicklow

RiskRating =Severity x Likelihood			
Potential severity	Very likely 3	Likely 2	Unlikely 1
Fatality or cause permanent disability 3	<u>9</u>	<u>6</u>	<u>3</u>
Serious injury 2	<u>6</u>	<u>4</u>	<u>2</u>
Require Medical attention 1	<u>3</u>	<u>2</u>	<u>1</u>

Project; Kilsaran Remediation Works, @ Sea Road, Kilcoole, Co. Wicklow

Location:	Sea Road, Kilcoole, Co. Wicklow	Duration:	15/20 days	Assessment by:	FM
Description:	Asbestos removal and disposal works	Works by:	Gravity Construction	Date:	1 ST . June 2016

Activity/Hazard	Potential risks from these activities	Likely-hood	Sever-ity	Risk Rating	Controls Measures Required	By whom	Risk Rating after controls in place
		1-3	1-3	L x S			
Exposure to asbestos fibres during the removal and packaging of asbestos cement products	Exposure to asbestos fibres to removal operatives Exposure to asbestos fibres may lead to the following asbestos related diseases: <ul style="list-style-type: none"> ○ Asbestosis ○ Lung Cancer Mesothelioma	3	3	9	<ul style="list-style-type: none"> ○ Asbestos survey carried out to identify asbestos type and the risk of exposure ○ Provide all employees with training/information about the dangers of asbestos and the use of PPE ○ Do not use power tools on asbestos materials, as they create dust, use hand tools instead ○ The asbestos cement waste should be doubled bagged in 1,000-gauge polythene and FIBCs and temporarily stored on site in a dedicated waste storage area 	Site supervisor and all asbestos removal operatives	1
Working at height	Falls of persons Falls of materials Falling from heights can result in death or serious injury. Surveyors may be affected	3	3	9	<ul style="list-style-type: none"> ○ Always use adequate PPE ○ Ensure that there is a safe method of access and egress ○ Wear safety harness where necessary Use of scaffolding towers <ul style="list-style-type: none"> ○ Outriggers or stabilisers must be used ○ Towers must not be used on slopping surfaces ○ Towers should be tied to stable structures ○ Wheels must be locked when in used. ○ Area around tower to be cordoned off with tape 	Asbestos removal operatives	1
Manual Handling	Spinal Injuries, Hernias, Cuts, crushing of hands or fingers Injuries to toes and feet Various sprains, strains etc. Surveyors may be affected	3	2	6	All personnel involved in manual handling will wear safety shoes, and gloves as appropriate Avoid carrying awkward items up and down steps All operatives to have Manual Handling Training	Asbestos removal operatives	1

Project; Kilsaran Remediation Works, @ Sea Road, Kilcoole, Co. Wicklow

Slips, trips and falls	Falls can be fatal serious injury Surveyors and other site personnel may be affected	3	2	6	<ul style="list-style-type: none"> ○ Identify areas where levels change, e.g. slopes, ramps, steps/ stairs, unexpected holes, bumps, drainage channels ○ Identify mats and rugs – decorative or functional ○ Identify slippery surfaces ○ Identify poorly maintained, damaged floors ○ Identify trailing cables and hoses ○ Beware of oil or grease on plant room floors ○ Keep the working area cordoned, clean & tidy 	Asbestos removal operatives	1
Hand tools	Cuts, bruising and minor injuries.	3	1	3	<ul style="list-style-type: none"> ○ Safe systems of work to be adopted. ○ Supervision. ○ Tool box talk 	Asbestos removal operatives	1

Project; Kilsaran Remediation Works, @ Sea Road, Kilcoole, Co. Wicklow

Method Statement Briefing Record

Briefing delivered by: [REDACTED]

Position: [REDACTED]

Contractor: Gravity Construction Limited

Site Name: Sea Road, Kilcoole, Co. Wicklow

Method Statement Title: Asbestos Removal Works

I (the undersigned) have had the contents of this site task and area specific method statement including risk assessment communicated to me and I agree to comply with all conditions and control measures detailed within. If the work activity changes or deviates from that originally scope, I will seek further advice and request an amended method statement.

Name (Print)	Signature	Date
[REDACTED]		
[REDACTED]		
[REDACTED]		
[REDACTED]		

Please use extra sheet if required. Ensure all personnel involved in the works have signed off on the Method Statement.

2ND JUNE,
PJ. MOONEY

→ Area to be
Decontaminated

CASTLE
EFFECT WALL
↑

Existing
House
←

Front of Site
@ NET Project
SEA ROAD



Truck Pick
up Route
↑

Route from
work area to
Storage Area
↑

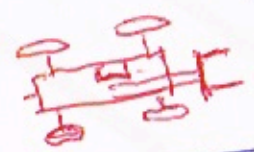
300 GPT

Hopper
& Bagging
Area

MIST
Sprayers

Harris fence
& Corri Board
will be marked
Back along
as work is
completed

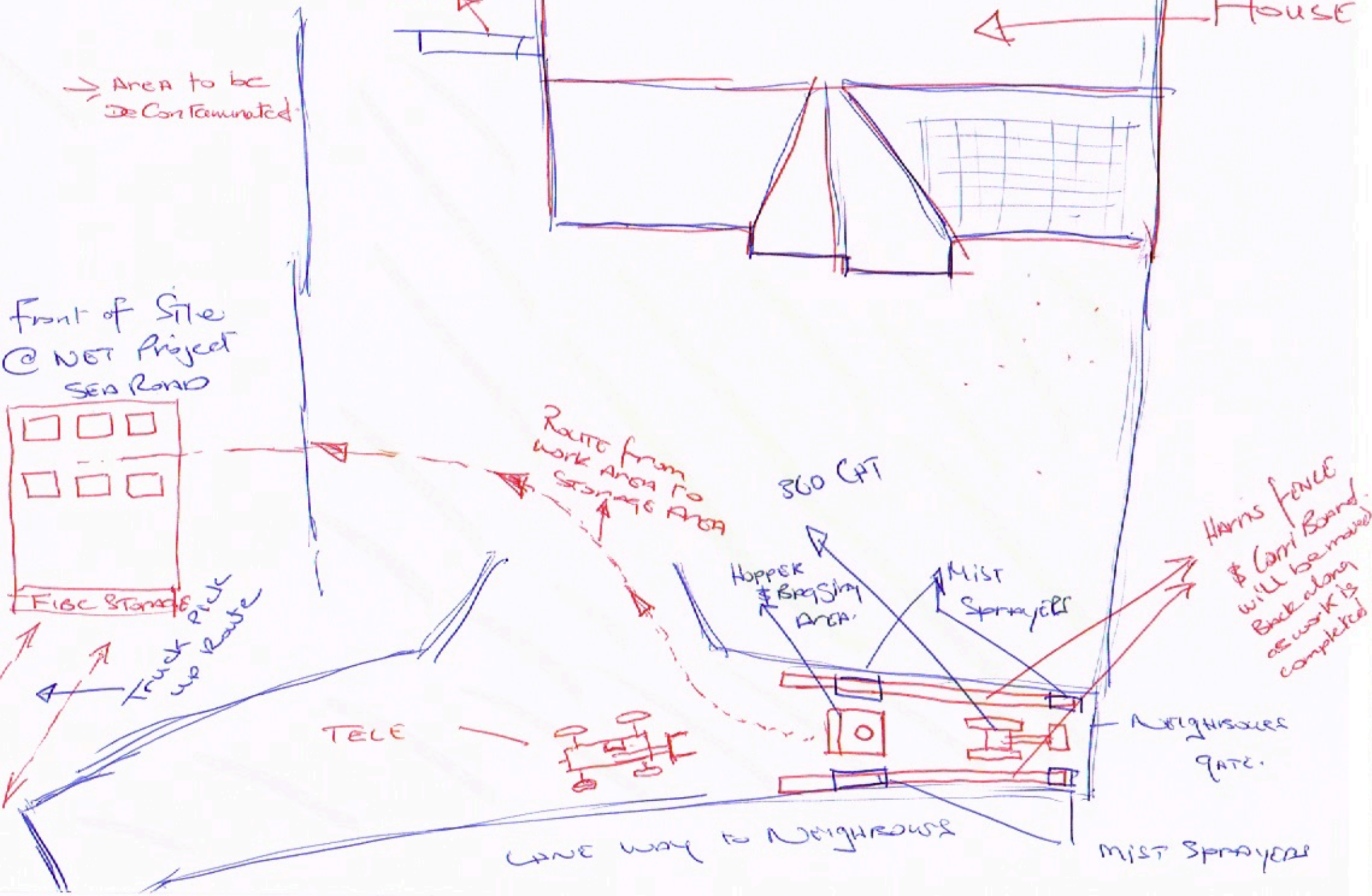
TELE



Neighbours
gate.

LANE WAY TO NEIGHBOURS

MIST SPRAYERS

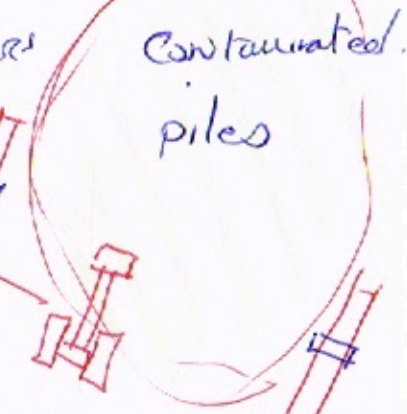


2ND JUNE
P.J. MOONEY

Storage Area



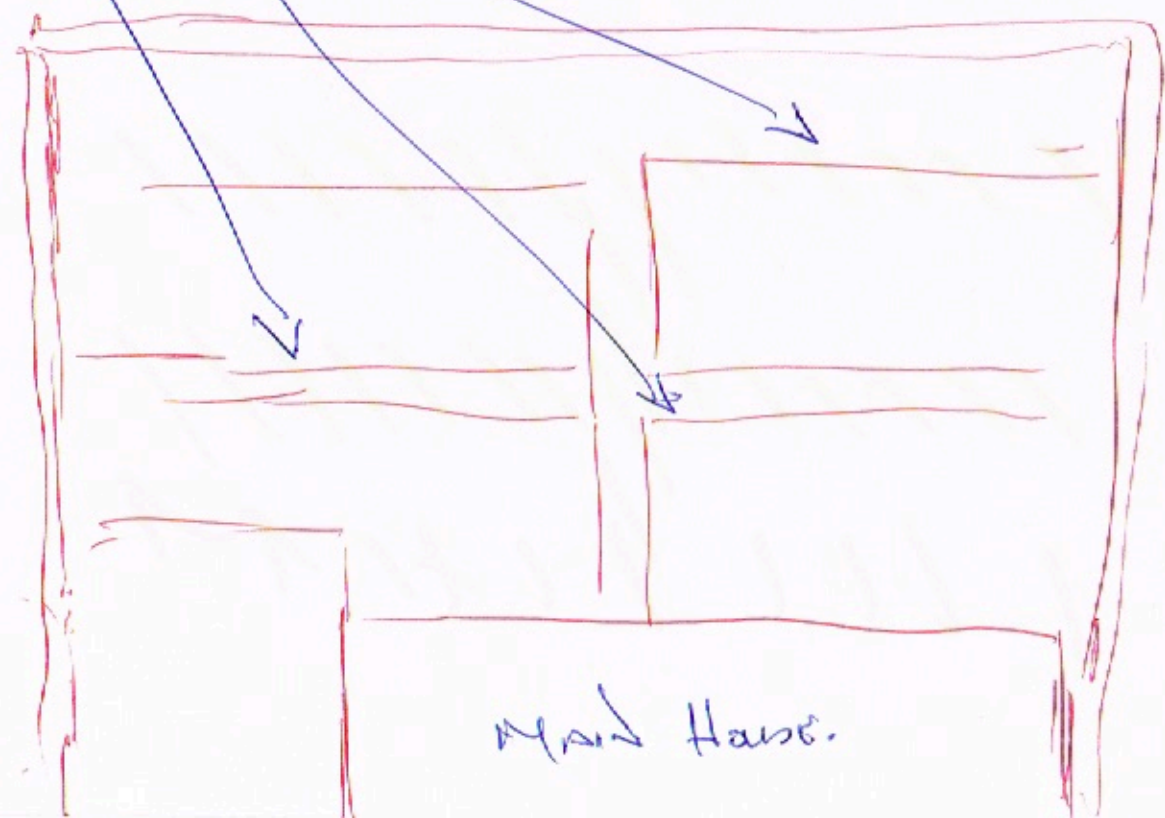
Harris Fence
& Corridor
Back along as work is completed
Mist Sprayers



Route from work area to Storage Area

TELE

Contaminated Areas



Back of House @
NOT Projects
SEA ROAD.

Contaminated Areas



From: [Darren Arkins](#)
To: [Jim Fanning](#)
Subject: FW: RAMS and plan of work drawings for Kilsaran Remediation works @ Sea Road, Kilcoole, Wicklow
Date: 03 June 2016 08:51:57

Morning Jim,

I reviewed Gravity RAMS and site plan. A few comments.

- They are proposing to use misting system as we described at Kilsaran meeting yesterday, however they seem to be suggesting adding detergent to mist which I do not agree with. They should saturate aggregate with surfactant initially by graco with water only misting system in operation during use of excavator.
- On their site plan, they have referenced a hopper/bag fill area but this is not referenced in their RAMS (so are they going to use this system?). If they are using a hopper, misting should take place during the fill
- Their site plan is not acceptable and difficult to understand. This needs to be redrawn by computer.
- They are suggesting red overalls. I think blue overalls only would be fine due to possible unnecessary alarm for members of the public.
- Is 'asbestos' signage advisable as suggested in their RAMS due to possible unnecessary alarm for members of the public. There should be adequate signage to exclude unauthorised access and the site should be supervised in such a way that no unauthorised persons can enter.

Are you ok speaking to them this morning on these points including any of your own observations?

██████████ if you want to discuss further.

Regards,
Darren

From: ██████████ [mailto:██████████@gravityconstruction.ie]
Sent: 02 June 2016 21:27
To: Darren Arkins; jim.fanning@hsa.ie
Cc: ██████████@awnconsulting.com
Subject: RAMS and plan of work drawings for Kilsaran Remediation works @ Sea Road, Kilcoole, Wicklow

Hi Darren/Jim

Further to our meeting with ██████████ this eve

They have asked me to forward you guys our preliminary Methodology and plan layouts for the Sea Road Project that Remediation works are due to commence on next week

These cover the majority of the works that are likely to be carried out throughout the duration off the works

On review of the above can you give us ([REDACTED] and I) a
shout in the office ([REDACTED] n morn to discuss the same

Thank you guys

Kind regards,

[REDACTED]

[REDACTED]



**Barntown
Wexford
Ireland**

Mob. [+353 \(0\) 87 \[REDACTED\]](tel:+353087[REDACTED])

Office 1890 111 222

Email [\[REDACTED\]@gravityconstruction.ie](mailto:[REDACTED]@gravityconstruction.ie)

Web www.gravityconstruction.ie

**Asbestos Removal & Disposal / Land Remediation / Cladding & Re-Roofing / Steel Erecting & Rigging / ESB
Pylons**

From: [REDACTED]
To: Colin; AsbestosNotif
Cc: [REDACTED] <[REDACTED]@kilsaran.ie>; Pat
Subject: RE: Notification of an Asbestos Removal Project.
Date: 02 June 2016 16:51:51
Attachments: [image001.png](#)
[image003.png](#)
[image004.png](#)

Have you everything else in place to commence? Jim Fanning is going to come on site in the morning, He wants a simple sprinkler system in place just in case also.

Regards

[REDACTED]

From: [REDACTED] [mailto:Colin@ewt.ie]
Sent: 02 June 2016 16:36
To: AsbestosNotif@hsa.ie
Cc: [REDACTED] <[REDACTED]@kilsaran.ie> <[REDACTED]@kilsaran.ie>; [REDACTED] <[REDACTED]@awnconsulting.com>; Pat <Pat@ewt.ie>
Subject: Notification of an Asbestos Removal Project.

To whom it may concern,

Attached please find our notification and site specific method statement for the proposed asbestos removal works at [REDACTED]. HSA inspectors Jim Fanning & Darren Arkins have both been in touch with the client who is anxious to get works underway as soon as possible and they have been in regular communication with the HAS on this matter with regards to receiving a waiver of the normal 14 day notification period.

If you have any questions or comments please do not hesitate to contact me.

Regards,

[REDACTED]

Environmental Waste Technologies Limited
Unit W10 E
Toughers Business Park
Newhall
Naas
Co. Kildare

Tel +353 (45) [REDACTED]
Fax +353 (45) [REDACTED]
Mobile +353 (86) [REDACTED]

www.ewt.ie



Before printing this email, think if it is necessary to do it. Think Green.

From: Colin
To: AsbestosNotif
Cc: [REDACTED] (kilsaran.ie); [REDACTED] (awnconsulting.com); Pat
Subject: Notification of an Asbestos Removal Project.
Date: 02 June 2016 16:36:14
Attachments: image001.png
image006.png
image008.png
[REDACTED]

To whom it may concern,

Attached please find our notification and site specific method statement for the proposed asbestos removal works at [REDACTED] Dublin 6W. HSA inspectors Jim Fanning & Darren Arkins have both been in touch with the client who is anxious to get works underway as soon as possible and they have been in regular communication with the HAS on this matter with regards to receiving a waiver of the normal 14 day notification period.

If you have any questions or comments please do not hesitate to contact me.

Regards,

[REDACTED]

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Tel +353 (45) [REDACTED]
Fax +353 (45) [REDACTED]
Mobile +353 (86) [REDACTED]

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Before printing this email, think if it is necessary to do it. Think Green.



IMPORTANT - CONFIDENTIAL : Information in this message is confidential and may be legally privileged. It is intended solely for the person to whom it is addressed. If you are not the intended recipient, please notify the sender, and please delete the message and any other record of it from your system immediately.

NOTIFICATION FORM TO BE USED FOR ANY WORK INVOLVING ASBESTOS

(S.I. No. 386 of 2006, Regulation 11 – Notification)

(Removal, repair or encapsulation of lagging, insulation or other materials containing asbestos i.e. work other than activities meeting the requirements of Reg 5(b) of S.I. No. 386 of 2006). This form must be submitted 14 days prior to the start of such work to:-

Health and Safety Authority, Occupational Hygiene, Metropolitan Building, James Joyce Street, Dublin 1

(Or Fax to: 01-6147020)

FOR OFFICE USE

EMP No:	POW No:	Notif No:
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TO BE COMPLETED BY NOTIFIER

Name of Notifier: Environmental Waste Technologies Ltd Address: Unit W10 E Toughers Business Park Naas Co. Kildare Telephone: 045 - 409386	Date of Notification: 02/06/2016
Name of Client: Kilsaran Piercetown Dunboyne Co. Meath Contact details of Client: [REDACTED] 086-[REDACTED]	Removal Contractor contact details: Environmental Waste Technologies Ltd Unit W10 E Toughers Business Park Naas Co. Kildare Name of person dealing with removal works: [REDACTED] Telephone No. of contact person: 045 - 409386
Address of Asbestos/Work Site: [REDACTED] Dublin 6W	
Scheduled Start Date: 03/06/2016	Estimated Completion Date: 05/06/2016
Smoke Test Date: N/A	No. of workers: 5
Type and quantity of asbestos likely to be involved : (e.g.: ceiling tiles, amosite pipe lagging) Approximately 10,000 Kgs of contaminated stone fill & rubble to driveway	

Location(s) of asbestos containing materials at the worksite:
Driveway
Asbestos activities or processes involved : <i>(e.g.: removal, repair, encapsulation/plant involved etc)</i>
Removal & Environmental Cleaning
Dust suppression methods to be used: <i>(e.g.: wet stripping, shadow vacuuming)</i>
Wet Stripping
Brief description of the manner in which the work is to be done: <i>(A copy of the plan of work, with site drawing, supplied to the client must be submitted with this notification to the Authority)</i>
Please see attached Site Specific Method Statement & Work Plan
<ul style="list-style-type: none">• <i>Request for waivers must be accompanied by full justification from the client company and a copy of the plan of work.</i>• <i>Where there is a change of a material nature in the carrying out of the activity to which this notification relates, the employer shall inform the Authority of that change in writing and submit a new notification for the purposes of these Regulations advising the Authority in writing of the reasons for this new notification.</i>



SITE SPECIFIC METHOD STATEMENT FOR THE REMOVAL OF ASBESTOS MATERIALS

CLIENT DETAILS

Kilsarn
Piercetown
Dunboyne
Co. Meath

Contact: Mr. [REDACTED]

Tel No. 086 - [REDACTED]

SITE DETAILS

173 [REDACTED]
Tempelogue
Dublin 6W

Contact: Mr. [REDACTED]

Tel No. 086 - [REDACTED]

ASBESTOS CONSULTANT APPOINTED BY THE CLIENT

AWN Consulting
The Tecpro Building
IDA Business and Technology Park
Clonsaugh
Dublin 17

Contact: Ms. [REDACTED]

Tel No. 01 - [REDACTED]

ENFORCING AUTHORITIES

Health and Safety Authority
The Metropolitan Building,
James Joyce Street
Dublin 2

Contact: Health & Safety Unit

Tel No: 1890 - 289389

ASBESTOS REMOVAL WORKS CARRIED OUT BY

Environmental Waste Technologies Ltd
Unit W10 E Toughers Business Park
Newhall
Naas
Co. Kildare

Contact: Mr. [REDACTED]

Tel No: [REDACTED]



SCOPE OF WORK

Following an instruction from the client Environmental Waste Technologies Ltd has been engaged to carry out the safe removal & packaging of approximately 10,000 Kgs of asbestos contaminated fill used for preparatory ground works at a private residence located at 173 [REDACTED]

Our works will also include the complete environmental cleaning of the areas from which Environmental Waste Technologies has removed the asbestos contaminated materials.

EMERGENCY CONTACT NUMBERS

HEAD OFFICE:	[REDACTED]
FAX	045-409388
E-mail	info@ewt.ie
[REDACTED]	Mobile 086- [REDACTED]
[REDACTED]	Mobile 087- [REDACTED]
[REDACTED]	Mobile 085- [REDACTED]
[REDACTED]	Mobile 086- [REDACTED]

PREPARATORY WORKS BY CLIENT PRIOR TO ASBESTOS WORKS COMMENCING

1. Removal of all non-contaminated items and equipment from the work areas.
2. Supply of sufficient power and mains pressure water to service decontamination unit, work areas and all specialist plant for the duration of the contract.
3. Supply of location for a decontamination unit
4. Supply of location for a secure area for the storage of asbestos waste during the removal works.
5. To inform, identify & isolate as necessary all ductwork, pipe work, electrical services and all hazardous energy & items within the works area.

ON SITE ASBESTOS TRAINED SUPERVISOR – [REDACTED]

The Supervisor's role will be to ensure all work is carried out as outlined in this method statement and to check all plant and machinery is in working order prior to and during asbestos removal works. He will ensure that all operatives are aware of, and adhere to all relevant current Health and Safety Authority legislation documents and guidelines.

The on Site Supervisor has the authority to modify and edit this method statement if changes need to be made on site. Each change will be initialled and signed by the on-site supervisor.



TYPE & DURATION OF PROJECT

Proposed start date	Friday June 3 rd 2016
Proposed finish date	Saturday June 4 th 2016
Number of employees to be utilised	5
Approximate quantity of asbestos	10,000 Kgs
Working Hours	8.00am – 4.30pm

TYPE & QUANTITY OF ASBESTOS

Number of samples taken	Not Known
Type of Asbestos	Actinolite
Form of Asbestos	Stone Pebbles & Rubble
Condition of Asbestos	Fair

CONTROL MEASURES TO BE APPLIED

Environmental Waste Technologies will adapt the following control measures:

- Reduction of exposure at source by the application of fibre suppression techniques.
- Careful handling techniques.
- The use of Respiratory Protective Systems.

EXPECTED EXPOSURE LEVELS

For the purpose of this risk assessment and due to the fact that the asbestos materials are technically friable but with fibres firmly bound to the matrix it is assumed due to previous experience that exposure levels due to the control measures employed will not exceed the action and control limits for amphibole and serpentine asbestos. The expected exposure, given the control methods selected for this removal procedure and based on previous experience of similar projects, is anticipated to be below the action level of **0.1fibres/cm³**. Personal & background air monitoring will be carried out by the client's consultant to verify the exposure. Due to the asbestos materials concerned we will continue in keeping with best practice use both Personal Protective Clothing and Respiratory Protective Equipment will be used and will be adequate for much higher than anticipated levels.

Given the control measures applied during the removal procedure it is not anticipated that any third party individuals will be exposed.



SPECIALIST EQUIPMENT & FACILITIES

DECONTAMINATION UNIT (DCU)

A self-contained hygiene unit (i.e. Decontamination Unit) complying with HSE Guidance note EH47. The unit is purpose built, consisting of three separate compartments: *a clean area, a shower area and a dirty area*. A self-closing door physically separates each compartment. Extract ventilation is provided which is designed to provide airflow from the clean end to the dirty end. In all other respects the unit conforms to the requirements of Guidance Note EH47 (*The provision, use and maintenance of hygiene facilities for work with asbestos insulation and coatings*).

Due to the works taking place without an enclosure the Decontamination Unit (DCU) will not be attached to the work area but will be placed as near as is practical to the work area of the to reduce transiting as much as is possible. This unit will be connected to power and water provided by the client. Water will be provided from a dedicated mains supply. Hot water & wastewater to & from the DCU is to be filtered into a foul drainage system, via a filtered water management system specifically manufactured & designed for such purposes.

FIBRE SUPPRESSANT TECHNIQUES

All asbestos materials will be sprayed via an airless sprayer with a diluted dampstrip **asbestos penetrant** solution until saturated prior to and during removal. **We will also be using a specialised mister which will be adjustable and can suppress any dust without causing contaminated water slurry.**

RESPIRATORY PROTECTIVE EQUIPMENT

Sundstrom Half Faced SR 100 Negative Pressure Respirators fitted with Particle Filter SR 510 P3R with an SR 221 Pre Filter with an actual protection value of 20 will be used during the works. Personal air monitoring results will be evaluated to ensure the correct RPE is being used.

PERSONAL PROTECTIVE CLOTHING

Microgard type 5 & 6 disposable overalls with elasticised hoods, cuffs and ankles. Coveralls and colour coding for each zone to be used on site for the duration of the contract will be as follows:

- Work Area = Blue
- Other Areas = Blue

During removal works coveralls will be blue disposable coveralls with elasticised hoods, cuffs and ankles. These will be disposed of after each visit inside the live work enclosure, (see **Decontamination Procedures** further in this document). When transiting and during sheeting up and de-tenting procedures operatives will wear blue coveralls with elasticised hoods, cuffs and ankles.

MATERIAL SPECIFICATION

Polythene Sheeting	Heavy duty 1000 gauge
Adhesive Tape	50mm wide
Asbestos UN Bags	90 x 90 x 110CM+ Liner (70MY).



OBJECTIVES

To remove asbestos in such a safe and secure manner so as to restrict fibre release during removal to an absolute minimum and to enable the operational area to be returned for normal occupation on completing of asbestos removal works.

WORK AREA CONSTRUCTION

This requires the formation of an effective restricted area between the designated asbestos work area and adjacent areas. The construction method shall be as follows:

- All non-contaminated fixtures fittings and fixed furniture are to be removed before any works commence, as far as is practicable. Any non-contaminated items, which cannot be reasonably removed will be sheeted over and protected from impact damage where necessary. This will be achieved by appropriate use of framework and plastic sheeting.
- The area will be restricted with Safety Bollards and caution tape with appropriate signage which will restrict entry.

WARNING SIGNS

Warning Signs that clearly demonstrate that asbestos removal is being performed and that entry is restricted will be posted around the work area.

ENTRY TO THE WORK AREA

Access to the work area will be restricted to the following;

- Removal operatives and site supervisor.
- Health and Safety Authority Environmental Health Inspector.
- Asbestos removal consultant(s).

Before entering the work area approved persons must at a minimum:

- Put on type 5/6 coveralls and washable footwear.
- Put on the respirator.
- Enter the work area.

No person shall be admitted to the work area without an adequate medical certificate, insurance cover, protective clothing and respiratory protection equipment.

METHOD OF WORK

In areas where removal is taking place once the work area has been completed and deemed satisfactory by the supervisor removal works will begin, **the contaminated material will be misted down with a combination of an electric airless sprayer and misting machines and saturated with an asbestos penetrant prior to and continuously during removal avoiding any water slurry.**

All waste & debris will be carefully hand shovelled by hand and placed in a UN Asbestos labelled and approved disposal bag and made ready for transport. Once gross removal of the asbestos containing materials has been completed, all surfaces will be wet raked so as to remove any asbestos residue that may remain. **The UN bags will be wet wiped and kept clean for transport.**



Upon completion of these tasks the site supervisor will then conduct a visual examination of the work area. If the area is deemed satisfactory, he will then inform the client's representative who will conduct a further visual examination of the area. When satisfied that the work area is clean air testing will be carried out by the consultant. When satisfactory results are achieved the site supervisor will then inform the operatives of the results and the work area will be deemed clean and broken down.

Asbestos removal will be undertaken by a team of trained operatives, one of whom will be posted outside the work enclosure to maintain the following;

- Provision of supplies.
- Function of plant and power supply.
- Liaison with the supervising officer.
- To prevent unauthorised access
- To act in the event of emergency.
- Secure and maintain the transit route

DECONTAMINATION PROCEDURES

The decontamination unit will be stocked with adequate supplies of soap, nailbrushes and towels. Operatives will proceed directly to the decontamination unit via the **restricted work area**. In the dirty area of the air lock they will remove boots, gloves and suits, their respirator will be removed and placed in a plastic bag for cleaning which will accompany the operatives as they proceed to the DCU, in the shower area. They will shower hair and body and clean their respirator thoroughly while wet and remove filters and place them in the container provided for their disposal, where possible, posting them back to the dirty end of the hygiene facility. Ensure that respirator face piece is clean both inside and out, after drying, place towels in bags for disposal pass through to the clean area and dress.

The transit route will have a designated operative to keep the transit route clear and to environmentally clean this route by wet wiping and hepa vacuuming immediately after each transit.

WASTE REMOVAL PROCEDURES

All asbestos waste will be handled in accordance with the statutory requirement of the waste management (hazardous waste) regulations 1998 (SI No.163 of 1998) and the European Communities (asbestos waste) regulations 1990 (SI No.30 of 1990), together with guidance note No. EH52 (removal techniques and associated waste handling for asbestos insulation, coating and insulation)

DISPOSAL OF ASBESTOS WASTE

All asbestos waste will be placed in sealed UN bags and transported by a licensed carrier, to the following licensed site for disposal as contaminated waste.

Rilta Environmental Services
Block 402
Greenogue Business Park
Rathcoole
Co. Dublin