Form Number: **EN-f-015**	Form Title **POLLUTION CONTROL PLAN**

CONTENTS

1. INTRODUCTION 3
2. PROJECT INFORMATION 3
3. DISTRIBUTION & REVIEW 4
3.1. Distribution 4
3.2. Review 5
4. POTENTIAL POLLUTANTS FROM THIS SITE 6
4.1. Pollutants 6
4.2. Contaminated Areas 7
5. POTENTIAL RECEPTORS THAT MAY BE AFFECTED BY POLLUTION FROM THIS SITE 8
6. POLLUTION PREVENTION MEASURES 10
6.1. Fuels (White Diesel, Petrol), Lubricating Oils, Hydraulic and Engine Oils 10
6.2. Paints (including spray paints) and Thinners 11
6.3. Detergents and Degreasers 11
6.4. Ad Blue 12
6.5. Other Chemicals 13
6.6. Freshly Mixed Concrete and Concrete Wash Out 14
6.7. Silt and Fine Materials (<0.06mm) 14
6.8. Sediment (>0.06mm) 15
6.9. Sewage/Foul water 16
6.10. Wash water from vehicle/wheel cleaning 16
6.11. Emissions to the atmosphere of fumes and dust (silica, wood and lower toxicity) 17
6.12. Noise (from construction operations) 18
6.13. Light 19
6.14. Cleaning Solvents (e.g. Bleach) 19
6.15. Waste 20
7. POLLUTION RESPONSE MEASURES 21
7.1. Contacts 21
7.2. Pollution Response Hierarchy 22
7.3. Accredited Oil Spill Response Contractor 22
7.4. Location of Spill Kits 23
7.5. Response Measures for Individual Pollutants 23
7.5.1. Fuels (White Diesel, Petrol), Lubricating Oils, Hydraulic and Engine Oils 23
7.5.2. Paint (including spray paints) and Thinners 24
7.5.3. Detergents and Degreasers 24

7.5.4. Ad Blue 25
7.5.5. Other Chemicals 25
7.5.6. Freshly Mixed Concrete and Concrete Washout 26
7.5.7. Silt and Fine Materials (<0.06mm) 26
7.5.8. Sediment (>0.06mm) 26
7.5.9. Sewage/Foul water 27
7.5.10. Wash water from vehicle/wheel cleaning 27
7.5.11. Emissions to the atmosphere of fumes and dust (silica, wood and lower toxicity) 28
7.5.12. Noise (from construction operations) 28
7.5.13. Light 29
7.5.14. Cleaning Solvents (e.g. Bleach) 29
7.5.15. Waste 29
8. MONITORING OF POTENTIAL POLLUTANTS 30
8.1. Watercourses 30
8.2. Noise 31
8.3. Dust and Fumes 31
APPENDIX 1 - PLAN OF SITE 32
APPENDIX 2 - POLLUTANT MONITORING RECORDS 33

Form Number: **EN-f-015**	Form Title **POLLUTION CONTROL PLAN**

1. INTRODUCTION

This Pollution Control Plan has been developed to enable the site team to recognise the potential pollutants that may be present on this site and to prevent them from contaminating the identified receptors. Appropriate environmental training and support is available to all members of the site/project team regarding pollution control, and the Jones Bros HSE Team should be contacted for further advice on mitigation measures. **Within the site/project team, the following environmental awareness/ competencies are present:**

Name	Role	Environmental Qualification
Sam Roberts	Project Manager	SEATS, SMSTS, Spill Kit Training
Gareth Jones	Works Manager	SEATS, SMSTS, Spill Kit Training
Joe Griffiths - TBC	Foreman	SEATS, SMSTS, Spill Kit Training

The Plan includes:

- Consideration of all the potential pollutants present on this site;
- An understanding of the receptors that may be affected by the potential pollutants described in Section 4.0;
- The pollution prevention measures that have been implemented to minimise the risk of polluting any of the receptors;
- The response measures that are available to minimise the impact of any pollution incident.

In this document, the terms ‘Site’ and ‘Project’ are to be used for all Jones Bros’ temporary construction site and permanent locations including the Training Department and Plant Yard/Workshop.

2. PROJECT INFORMATION

Project Name	Kinmel Bay Coastal Defence Improvements Scheme
Project Number	C4215
Client	Conwy County Borough Council
Principal Contractor	Jones Brother Civil Engineering UK
Person Responsible for Pollution Control Plan	Gemma Roebuck
Role in the Project	Bid Manager
Site Address	Jones Bros Site Office St Asaph Carpark, Promenade, Kinmel Bay, LL18 5NL

4. DISTRIBUTION & REVIEW

4.1. Distribution

This Pollution Control Plan must be kept on site at all times. The controlled copy, held by Rosie Wynn, must be available for members of the Jones Bros workforce, subcontractors and client.

The controlled copy of this Pollution Control Plan is held by:

Name	Position	Company
Sam Roberts	Projects Manager	Jones Bros

Each subcontractor must be familiar with the control measures and procedures outlined in this Plan.

Uncontrolled copies of this Plan have been distributed to the following:

Name	Position	Company

4.2. Review

This Pollution Control Plan shall be reviewed as often as is required to ensure that it reflects the progress of the project, and in any event, not less than every three months.

Date	Name	Nature of Changes	Signed
03/05/2023	Rosie Wynn	Updated personnel details	RWynn

5. POTENTIAL POLLUTANTS FROM THIS SITE

5.1. Pollutants

It is anticipated that the following have the potential to cause pollution from construction operations on this Project:

- Fuels (White Diesel, Petrol), Lubricating Oils, Hydraulic and Engine Oils
- Paint (including spray paints) and Thinners
- Detergents and Degreasers
- Ad Blue
- Other Chemicals
- Freshly mixed concrete and Concrete Washout
- Silt and Fine Materials (<0.06mm)
- Sediment (>0.06mm)
- Sewage/Foul water
- Wash water from vehicle/wheel cleaning
- Emissions to the atmosphere of fumes and dust (silica, wood and lower toxicity)
- Noise (from construction operations)
- Light
- Cleaning Solvents (e.g. Bleach)
- Waste

Under the Control of Substances Hazardous to Health (COSHH) Regulation assessments will be carried out on all substances which are intended for use on the project.

All new substances brought onto site will be accompanied by a manufacturer's Material Safety Data Sheet (M.S.D.S.).

5.2. Contaminated Areas

The existing contaminated areas which pose a potential risk of pollution on this Project are identified in the following table and on the plan attached as Appendix 1:

Location of contamination	Nature of contamination
No known areas of contamination	N/A

Any contaminated soils must be chemically analysed by a UKAS accredited laboratory prior to excavation, to sufficiently characterise the soils. On site treatment must be considered before disposing off site and the CL:AIRE Code of Practice may be a way of achieving this (Contact HSE Team for further guidance).

NOTE: Contamination may render soil to be disposed off-site as a hazardous waste and this must be disposed of in accordance with Section 7 of EN-p-001 Waste Management Procedure.

6. POTENTIAL RECEPTORS THAT MAY BE AFFECTED BY POLLUTION FROM THIS SITE

The potential receptors on this project are contained in the following table:

Pollutant	Receptor, Name (if appropriate) and Location
Fuels (White Diesel, Petrol), Lubricating Oils, Hydraulic and Engine Oils	Potential for contaminating ground and watercourses, Foreshore
Paint (including spray paints) and Thinners	Potential for contaminating ground and watercourses, Foreshore
Detergents and Degreasers	Potential for contaminating ground and watercourses, Foreshore
Ad Blue	Potential for contaminating ground and watercourses, Foreshore
Other Chemicals	Potential for contaminating ground and watercourses, Foreshore
Freshly mixed concrete and Concrete washout	Potential for contaminating ground and watercourses, Foreshore
Silt and Fine Materials (<0.06mm)	Potential for contaminating ground and watercourses, Foreshore
Sediment (>0.06mm)	Potential for contaminating ground and watercourses, Foreshore
Sewage/Foul water	Potential for contaminating ground and watercourses, Foreshore
Wash water from vehicle/wheel cleaning	Potential for contaminating ground and watercourses, Foreshore

Form Number: **EN-f-015**	Form Title: **POLLUTION CONTROL PLAN**

Emissions to the atmosphere of fumes and dust (silica, wood and lower toxicity)	Potential for air pollution and reduced air quality
Noise (from construction operations)	Potential to affect others (Local Dwelling) disturbance of local fauna (e.g. Nesting Birds)
Light	Potential to affect others (Local Dwelling) disturbance of local fauna (e.g. Nesting Birds)
Cleaning Solvents (e.g. Bleach)	Potential for contaminating ground and watercourses, Foreshore
Waste	Potential for contaminating ground and watercourses, Foreshore

Receptors are shown on the Plan of the Site (Appendix 1)

7. POLLUTION PREVENTION MEASURES

Please refer to GPP21 "Pollution Incident Response Plans" which can be downloaded from http://www.netregs.org.uk/media/1436/gpp-21-final.pdf

Fuel oils will be stored and handled in line with the guidance contained in EN-p-003 Oil Storage & Handling

The following tables summarise the measures taken for each pollutant to prevent contaminating the receptors listed in Section 5.0

7.1. Fuels (White Diesel, Petrol), Lubricating Oils, Hydraulic and Engine Oils

Location	Site operation	Prevention Measures
Whole Site	Refuelling plant	• Operatives trained in refuelling procedures • Suitable method for transporting fuels • Follow PFC009 Environmental Drips and Spills for reporting spill/leak incidents • Refuelling limited to designated areas, not within 10m of watercourses, drains or ditches or within 50m of a borehole, spring or well • All 3rd Party fuel deliveries to site to be supervised by a member of Jones Bros staff
	Plant/Vehicle operation	• Daily check of re-fuelling equipment • Drainage systems to be located and protected • Weather conditions to be considered daily prior to travelling with fuel • On site transport of fuels/oils to be kept to a minimum • Plant nappies used under small plant during operation, when refuelling and when using fuel-certified bottles in the works area • Spill kits available in suitable locations (in all plant as per SMART Check Sheets, at refuelling points, near major work areas, with spares available in COSHH store) • When working in or near water (e.g. lagoons), a specific risk assessment to be undertaken
	Plant maintenance	• Site team and fitters trained in the use and disposal of spill kits and pollution prevention. Disposal of used spill kits to occur in line with the EN-f-010 Site Waste Management Plan and EN-p-001 Waste Management Procedure (Hazardous Waste) • Properly maintained plant with daily checks on the condition of hydraulic pipes and joints • All plant fitters to carry large spill kit. All maintenance work with a potential to cause a fuel or oil spill to be notified to management prior to works being undertaken • Wherever possible, strategically positioned plant maintenance areas to be constructed • EN-a-008 ECoW Log to be completed by Environmental Specialist at a minimum of quarterly (see Table in section 8.1) • Monitor watercourses using EN-a-003 Environment Watercourse Monitoring Record (if

		present) and whole of site using EN-a-001 Environment Inspection Daily Check • Site team and fitters to have completed Spill Kit Training – contact HSE Team to arrange this.

7.2. Paints (including spray paints) and Thinners		
Location	**Site operation**	**Prevention Measures**
Whole site	Plant maintenance Road markings Setting Out by Engineers	• Monitor watercourses using EN-a-003 Environment Watercourse Monitoring Record (if present) and whole of site using EN-a-001 Environment Inspection Daily Check • EN-a-008 ECoW Log to be completed by Environmental Specialist at a minimum of quarterly (see Table in section 8.1) • Follow PFC009 Environmental Drips and Spills for reporting spill/leak incidents • When working near water, a specific risk assessment to be undertaken • Site team and fitters trained in the use and disposal of spill kits and pollution prevention • Chemical or Maintenance spill kits available in suitable locations (near major work areas and alongside watercourses, with spares available in COSHH store) • Weather conditions to be considered daily prior to using paints and thinners • All paints and thinners to remain on a bund area when not in use, or on a plant nappy or drip tray whilst they are required in the works area • Drainage systems to be located and protected • Do not over use the product - use amounts as specified • Ensure any runoff is captured by spill kits • Only use paints and thinners in areas away from watercourses • Disposal of paint cans containing residue and used spill kits in line with the EN-f-010 Site Waste Management Plan and EN-p-001 Waste Management Procedure (Hazardous Waste) • Site team and fitters to have completed Spill Kit Training – contact HSE Team to arrange this.

7.3. Detergents and Degreasers		
Location	**Site operation**	**Prevention Measures**
Whole site	Plant/Vehicle maintenance	• Monitor watercourses using EN-a-003 Environment Watercourse Monitoring Record (if present) and whole of site using EN-a-001 Environment Inspection Daily Check

		• EN-a-008 ECoW Log to be completed by Environmental Specialist at a minimum of quarterly (see Table in section 8.1) • Follow PFC009 Environmental Drips and Spills for reporting spill/leak incidents • All detergents and degreasers to remain on a bund area when not in use, or on a drip tray whilst they are required in the works area • Do not over use the product, use amounts as specified • Drainage systems to be located and protected • Ensure any runoff is captured by use of maintenance/chemical spill kits • Only use detergents and degreasers in designated areas • When working near water, a specific risk assessment to be undertaken • Chemical or Maintenance spill kits available in suitable locations (near major work areas and alongside watercourses, with spares available in COSHH store) • Site team and fitters trained in the use and disposal of spill kits and pollution prevention. Disposal of used spill kits to occur in line with the EN-f-010 Site Waste Management Plan and EN-p-001 Waste Management Procedure (Hazardous Waste) • Weather conditions to be considered daily prior to using detergents and degreasers • Site team and fitters to have completed Spill Kit Training – contact HSE Team to arrange this.

7.4. Ad Blue

Location	Site operation	Prevention Measures
Whole site	Plant/vehicle maintenance	• Chemical or Maintenance spill kits available in suitable locations (at ad blue/refuelling points, near major work areas and alongside watercourses, with spares available in COSHH store) • Follow PFC009 Environmental Drips and Spills for reporting spill/leak incidents • Refuelling limited to designated areas, not within 10m of watercourses, drains or ditches or within 50m of a borehole, spring or well • Daily check of Ad Blue re-fuelling equipment • Weather conditions to be considered daily prior to travelling with Ad Blue • On site transport of Ad Blue to be kept to a minimum • Plant nappies used under small plant during operation, when refuelling with ad blue and when using ad blue-certified bottles in the works area • When working in or near water, a specific risk assessment to be undertaken • Drainage systems to be located and protected • Site team and fitters trained in the use and disposal of spill kits and pollution prevention.

		Disposal of used spill kits to occur in line with the EN-f-010 Site Waste Management Plan and EN-p-001 Waste Management Procedure (Hazardous Waste) • Refuelling limited to designated areas • All 3rd Party Ad-Blue deliveries to site to be supervised by a member of Jones Bros staff • Deployment of booms in watercourse downstream of site • Liaison with downstream abstractors to notify them of any pollution that may affect them • Properly maintained plant with daily checks on the condition of hydraulic pipes and joints • All plant fitters to carry large maintenance spill kit. All maintenance work with a potential to cause a spill to be notified to management prior to works being undertaken • Wherever possible, strategically positioned plant maintenance areas to be constructed • Monitor watercourses using EN-a-003 Environment Watercourse Monitoring Record (if present) and whole of site using EN-a-001 Environment Inspection Daily Check • EN-a-008 ECoW Log to be completed by Environmental Specialist at a minimum of quarterly (see Table in section 8.1) • Site team and fitters to have completed Spill Kit Training – contact HSE Team to arrange this.

7.5. Other Chemicals

Location	Site operation	Prevention Measures
Whole site	Plant/vehicle maintenance Works on site	• Chemical or Maintenance spill kits available in suitable locations (near major work areas and alongside watercourses with spares available in COSHH store) • Follow Procedure HS-p-012 Substances Hazardous to Health • Follow PFC009 Environmental Drips and Spills for reporting spill/leak incidents • Weather conditions to be considered daily prior to travelling with Chemicals • On site transport of Chemicals to be kept to a minimum • Plant nappies or drip trays used when undertaking maintenance of plant • All chemicals to remain on a drip tray/plant nappy when in the works area, and otherwise stored in the secure COSHH store • When working in or near water, a specific risk assessment to be undertaken • Site team and fitters trained in the use and disposal of spill kits and pollution prevention. Disposal of used spill kits to occur in line with the EN-f-010 Site Waste Management Plan and EN-p-001 Waste Management Procedure (Hazardous Waste) • All 3rd Party Chemical deliveries to site to be supervised by a member of Jones Bros staff • Properly maintained plant with daily checks completed • All plant fitters to carry large maintenance spill kit. All maintenance work with a potential

		to cause a spill to be notified to management prior to works being undertaken • Wherever possible, strategically positioned plant maintenance areas to be constructed • Monitor watercourses using EN-a-003 Environment Watercourse Monitoring Record (if present) and whole of site using EN-a-001 Environment Inspection Daily Check • EN-a-008 ECoW Log to be completed by Environmental Specialist at a minimum of quarterly (see Table in section 8.1) • Site team and fitters to have completed Spill Kit Training – contact HSE Team to arrange this.

7.6. Freshly Mixed Concrete and Concrete Wash Out		
Location	**Site operation**	**Prevention Measures**
Whole site	Concreting works Concrete wash out	• Monitor watercourses using EN-a-003 Environment Watercourse Monitoring Record (if present) and whole of site using EN-a-001 Environment Inspection Daily Check • EN-a-008 ECoW Log to be completed by Environmental Specialist at a minimum of quarterly (see Table in section 8.1) • Follow PFC009 Environmental Drips and Spills for reporting spill/leak incidents • Drainage systems to be located and protected • Place visqueen under the concrete floor pour to prevent grout loss • Pre concrete check on formwork and false work before concrete pour commences to prevent accidental discharge of concrete • Provide wash out skips for all concrete wagons • Concrete washout water to be pumped into foul sewer or taken away by tanker in line with the EN-f-010 Site Waste Management Plan and EN-p-001 Waste Management Procedure • Concrete washout to be placed no closer than 10m from any watercourse • All subcontractors and suppliers of ready mix concrete must be made aware of the procedure for washing out of chutes. Chutes must be washed out in the designated area

7.7. Silt and Fine Materials (<0.06mm)		
Location	**Site operation**	**Prevention Measures**
Whole site	Surface water run-off	• Monitor watercourses using EN-a-003 Environment Watercourse Monitoring Record (if present) and whole of site using EN-a-001 Environment Inspection Daily Check • EN-a-008 ECoW Log to be completed by Environmental Specialist at a minimum of quarterly (see Table in section 8.1)

	Working materials such as clay Vehicle or plant movement Dewatering excavations/over pumping	• Drainage systems to be located and protected • Use of floating inlet pipe to attenuation ponds • Silt fencing installed to stop silty runoff into watercourses • Compact spoil tips to reduce runoff • Utilise wheel washing when leaving site • Hose off hard standings into separator pit • Utilise road sweepers on site entrance and egress pathways • Use of silt busters or silt socks to remove silt when dewatering excavations/over-pumping • Reduce water ingress into excavations by covering over • Install check dams where appropriate to settle out sediment and silt • Pumping out water into a series of settlement tanks and lagoon • Use of sedimats in watercourses on site where necessary to capture any silt • Environmental Toolbox Talk 100 on Silt Pollution Prevention given to all site staff

7.8. Sediment (>0.06mm)		
Location	**Site operation**	**Prevention Measures**
Whole site	High flow rain water run-off (e.g. during floods entraining larger particles) Vehicle or plant movement Collapse of channel sides in on-site streams due to works near water	• Monitor watercourses using EN-a-003 Environment Watercourse Monitoring Record (if present) and whole of site using EN-a-001 Environment Inspection Daily Check • EN-a-008 ECoW Log to be completed by Environmental Specialist at a minimum of quarterly (see Table in section 8.1) • Install check dams where appropriate to settle out sediment and silt • Use of sedimats in watercourses on site where necessary to capture smaller particles • Install drainage ditches where possible to channel high surface flows • Drainage systems to be located and protected • Compact spoil tips to reduce runoff • Utilise wheel washing when leaving site • Dig out tracks in designated washing down area on plant before leaving site • Hose off hard standings into separator pit • Utilise road sweepers on site entrance and egress pathways • Environmental Toolbox Talk 102 on Washing Down Plant and Machinery given to all site staff • Utilise Geojuting on channel banks to reduce likelihood of sediment collapse into watercourse where applicable • Avoid working near steep channel banks where possible to reduce likelihood of

		overbearing

7.9. Sewage/Foul water		
Location	**Site operation**	**Prevention Measures**
Whole site	Emptying of cess pit/septic tank	• Cess pit/septic tank installed in accordance with BS 6297 and BS EN 12566 • Ensure septic tanks/cess pits are emptied regularly by a licensed company who remove the sewage to stop overflow and contamination of site • Avoid over use of janitorial chemicals such as bleach • If sewage leak or overflow does occur, this is classed as hazardous material, and should be managed in accordance with the EN-f-010 Site Waste Management Plan and EN-p-001 Waste Management Procedure (Hazardous Waste) • Follow PFC009 Environmental Drips and Spills for reporting spill/leak incidents • Where possible, ensure sewage goes into mains sewer • Monitor watercourses using EN-a-003 Environment Watercourse Monitoring Record (if present) and whole of site using EN-a-001 Environment Inspection Daily Check • EN-a-008 ECoW Log to be completed by Environmental Specialist at a minimum of quarterly (see Table in section 8.1)

7.10. Wash water from vehicle/wheel cleaning		
Location	**Site operation**	**Prevention Measures**
Whole site	Washing down plant/vehicles Digging out tracks	• Monitor watercourses using EN-a-003 Environment Watercourse Monitoring Record (if present) and whole of site using EN-a-001 Environment Inspection Daily Check • EN-a-008 ECoW Log to be completed by Environmental Specialist at a minimum of quarterly (see Table in section 8.1) • Liaison with downstream abstractors to notify them of any pollution that may affect them • Washing down and digging out of tracks occurs over an interceptor or in a designated area where runoff cannot escape • Regular emptying of interceptor pits by licensed carrier and disposal company in accordance with the EN-f-010 Site Waste Management Plan and EN-p-001 Waste Management Procedure (Hazardous Waste) • Follow PFC009 Environmental Drips and Spills for reporting spill/leak incidents • Ensure slurry/mud containing invasive species are disposed of appropriately in line with the EN-f-010 Site Waste Management Plan and EN-p-001 Waste Management

		Procedure (Hazardous Waste) • Environmental Toolbox Talk 102 on Washing Down Plant and Machinery given to all site staff

7.11.	**Emissions to the atmosphere of fumes and dust (silica, wood and lower toxicity)**	
Location	**Site operation**	**Prevention Measures**
Whole site	Plant/vehicle use and material transportation (fumes and silica dust) Congestion of roads (fumes) Painting/Setting Out by Engineers (fumes) Cutting/chasing concrete or stone (silica), Concrete batching (silica), Raking mortar (silica), Grinding with handheld tools (silica), Blasting (silica), Cutting plasterboard (lower toxicity dust), Excavating dry material (silica)	• Use of low emission plant, reducing exhaust fumes • Do not over rev vehicles when moving position • Ensure materials being transported on vehicles to and from site are covered to reduce dust pollution to local community • Opt for local suppliers and subcontractors where available to reduce travel/delivery mileage and carbon emissions • Regular plant/vehicle inspection using SMART check sheets and reporting of dark exhaust fumes or smoke. PFC075 Identifying, Planning & Performing Maintenance, Service, Inspection and Defects Rectification to be followed. • Roads to be swept regularly to remove loose dust and debris or scraped using plant • Water bowser used to dampen any dust that arises • Provide modern diesel fuelled plant and especially those with Ad Blue emission treatment systems that convert harmful mono nitrogen oxides into hydrogen and oxygen • Reduced speed limits on site to reduce dust creation • Plant windows to be kept shut with on-board climate control used to prevent dust entering driver's cabin • Consider shorter haul distances for ADT's during periods when dust can be an issue • Ensure there is a traffic management plan in place to relieve congestion for local community • Ensure that exhausts are facing downwind of plant user, pedestrians and workers in the area to reduce likelihood of ill-health • An LEV (local exhaust ventilation) system to be put in place for any fumes from painting activities which may leave the works area • Vehicles and plant not to be left idling • Generator to be switched off at the end of the working day • All dust-emitting works to be done in ventilated space • Always use water bottle dust suppressing unit when cutting concrete or stone with disc cutter

	Welding (fumes) Cutting Wood (sawdust)	• Lime or cement treatment of bulk fill will be carried out by purpose built spreaders and mixers with skirts and hoods designed to minimise dust generation • Dust extraction to be used to reduce likelihood of dust getting into the atmosphere • Monitor air quality using EN-a-004 Air Quality Monitoring Record when dust/fumes are likely to or have arisen • Monitor whole of site using EN-a-001 Environment Inspection Daily Check • EN-a-008 ECoW Log to be completed by Environmental Specialist at a minimum of quarterly (see Table in section 8.1) • Specific Dust Management Plan in place where necessary • Use of silica-free abrasives and materials where possible • Order the correct sized material to avoid necessity to cut or grind • Ensure all site staff are aware of the importance of dust suppression through Toolbox Talks • No welding to occur in confined spaces to reduce exposure to welding fumes, which are carcinogenic • HS-p-012 Procedure for Substances Hazardous to Health used as a reference guide for the identification and management of COSHH risks, safe use, control measures and Respiratory Protective Equipment (RPE) / Personal Protective Equipment (PPE) requirements • Use of temporary screens • Covers/lids used on waste skips if likely to produce dust in storage

7.12. Noise (from construction operations)		
Location	**Site operation**	**Prevention Measures**
Whole site	Operating plant/vehicles Blasting Placement of Heavy Materials (Rock Armour)	• Working hours to be adhered to: **Mon-Fri** • All plant such as pumps to be super silent in order to minimise any noise pollution (especially if required to operate 24hrs) • Minimise reversing on site to reduce noise of reverse alarms • Do not rev vehicles when moving position • SMART Check Sheets completed daily • Minimise vehicle movement through pre-planning work activities • Install noise screens round particularly noisy activities or working areas • Undertake noise monitoring around site and at receptor locations if noise levels are high. Use HS-a-048 HSE Noise Monitoring Record to do this • Monitor whole of site using EN-a-001 Environment Inspection Daily Check

	Pumping Operations	• EN-a-008 ECoW Log to be completed by Environmental Specialist at a minimum of quarterly (see Table in section 8.1) • Ensure vehicles are not running outside of working hours • Do not use hydraulic/air tools outside of working hours • Time deliveries to be within sociable/working hours • Ensure that PPE is being worn to meet regulations for noise • Brief Environmental Toolbox Talk on Noise & Vibration to site team where appropriate

7.13. Light		
Location	**Site operation**	**Prevention Measures**
Whole site	Site compounds activities Use of light towers/security lighting	• Install motion detector operated internal and external lighting where possible • Ensure security, tower and task lighting are not directed towards neighbouring properties as to create a nuisance • Ensure security, tower and task lighting is not directed towards known nesting bird areas or bat roosts - ensure a competent and qualified ecologist is consulted • Minimise the need to work during hours of darkness • Monitor whole of site using EN-a-001 Environment Inspection Daily Check • EN-a-008 ECoW Log to be completed by Environmental Specialist at a minimum of quarterly (see Table in section 8.1) • Brief Toolbox Talk on Lighting Use where appropriate

7.14. Cleaning Solvents (e.g. Bleach)		
Location	**Site operation**	**Prevention Measures**
Welfare, Toilets	Cleaning of toilets and welfare Delivery of cleaning solvents Storage of cleaning solvents	• Monitor watercourses using EN-a-003 Environment Watercourse Monitoring Record (if present) and whole of site using EN-a-001 Environment Inspection Daily Check • EN-a-008 ECoW Log to be completed by Environmental Specialist at a minimum of quarterly (see Table in section 8.1) • All cleaning solvents to remain inside site cabins, or if outside then on a bund area/drip tray/spill nappy whilst in use • Follow PFC009 Environmental Drips and Spills for reporting spill/leak incidents • Remove only what is needed for the task being carried out • Do not over use the product, use amounts as specified

	Emptying of Septic Tank	• Drainage systems to be located and protected • Ensure any runoff is captured by use of maintenance/chemical spill kits • Excess cleaning solvents from deliveries to be stored in COSHH store • 3rd Party delivery drivers to deliver goods as close to storage area as possible, to reduce likelihood of spillage during cleaning solvents being manually handled • Chemical or Maintenance spill kits available in suitable locations (near major work areas and alongside watercourses, with spares available in COSHH store) • Weather conditions to be considered daily prior to using cleaning solvents outdoors • Site team and fitters to have completed Spill Kit Training – contact HSE Team to arrange this • Site team and fitters trained in the use and disposal of spill kits and pollution prevention. Disposal of used spill kits to occur in line with the EN-f-010 Site Waste Management Plan and EN-p-001 Waste Management Procedure (Hazardous Waste)

7.15. Waste		
Location	**Site operation**	**Prevention Measures**
Whole Site	Use of welfare facilities Disposal of waste	• Monitor watercourses using EN-a-003 Environment Watercourse Monitoring Record (if present) and whole of site using EN-a-001 Environment Inspection Daily Check • EN-a-008 ECoW Log to be completed by Environmental Specialist at a minimum of quarterly (see Table in section 8.1) • All skips to be covered and remain closed when not in use to prevent wind-blown litter • Skips and septic tank to be emptied frequently to avoid overflowing • All hazardous waste streams (e.g. used spill kits, aerosols, empty grease cartridges, waste oil, contaminated water etc) to be disposed of separately in line with the EN-f-010 Site Waste Management Plan and EN-p-001 Waste Management Procedure (Hazardous Waste). Licensed Waste Carriers and Permitted/Exempt Disposal Sites to be used for disposal of Hazardous substances • EN-f-010 Site Waste Management Plan to be completed for all waste movements

8. POLLUTION RESPONSE MEASURES

Please refer to GPP22 “Dealing with spills” which can be downloaded from https://www.netregs.org.uk/media/1643/gpp-22-dealing-with-spills.pdf

Useful contacts for managing pollution incidents and gaining environmental advice are listed in Table 7.1.

8.1. Contacts

INTERNAL				
Organisation	**Contact**	**Role**	**Office Hours**	**Out of Hours**
Jones Bros	Sam Roberts	Site Manager	07787 100787	sam@jones-bros.com
Jones Bros	Gareth Jones	Works Manager	07867 379467	garethm@jones-bros.com
Conwy County Borough Council	Morgan Lloyd	Employers Agent		morgan.lloyd@conwy.gov.uk
Jones Bros	Sam Higgitt	Environmental Officer	07766747133	samh@jones-bros.com
Jones Bros	Casey Parry	HSE Assistant	07827344798	casey.parry@jones-bros.co.uk
Jones Bros	Kira Lawton	Environmental Graduate	07462023062	kira.lawton@jones-bros.com

EXTERNAL			
Organisation	**Contact**	**Office Hours**	**Out of Hours**
Natural Resources Wales		0300 065 3000	0800 807060
Adler and Allan Spill Response Contractor		0800 592 827	0800 592 827
Ecofficiency - Waste Broker		0800 030 5051	0800 030 5051
Police		999/101	
Fire Service		999	
Ambulance		999	
Coast Guard		999/112	

Response to the release of pollutants affecting watercourses will be in accordance with the Pollution Response Hierarchy in Table 7.2

8.2. Pollution Response Hierarchy

Preferred response ↓ Least preferred response	1. Contain at Source 2. Contain close to Source 3. Contain on the surface 4. Contain in the drainage system 5. Contain on or in the watercourse

8.3. Accredited Oil Spill Response Contractor

Site management will manage minor spillages that can be dealt with using on-site spill equipment. The site will contact the HSE Team immediately for advice on dealing with spillages as required. When necessary, our accredited spill response contractor will be contacted by the site to deal with the spill.

Jones Bros uses Adler & Allan as the accredited spill response contractor. All sites must register with Adler & Allan using En-f-018 Adler & Allan Site Registration Form.

Name	Emergency Phone Number
Adler & Allan	Tel: 0800 592 827 Fax: 01204 791166

8.4. Location of Spill Kits

Type of Spill Kit	Location
30 litres Grab Pack (Maintenance, Chemical, Oil)	Foreman's vehicle, all items of operated plant
Spill Bin (100L, 240L, 1100L etc) (Maintenance, Chemical, Oil)	Refuelling area, main works area, near to watercourses, COSHH store

NOTE: Used oil/chemical absorbent material must be treated as hazardous waste and disposed of in accordance with Section 7 of EN-p-001 Waste Management Procedures.

8.5. Response Measures for Individual Pollutants

The following measures are in place to minimise the risk of pollution following an incident involving any of the pollutants in Section 4.0. For Spills/Leaks, Spill Kit Awareness and Spill Mitigation Training teaches the following methods of dealing with spills/leaks on site – contact HSE Team to arrange this. EN-p-002 Spill Response Procedure highlights the response method for spills/leaks/frac-outs at various Jones Bros locations and premises, such as our construction sites/projects and permanent locations (Plant Yard, the Workshop, Training Compound (Denbigh)) and must be referred to in the event of any of the aforementioned incidents.

8.5.1. Fuels (White Diesel, Petrol), Lubricating Oils, Hydraulic and Engine Oils

Location	Site operation	Response Measures
Whole site	Refuelling; Operation; Maintenance	• Put item onto drip tray or spill nappy to stop any more from leaking onto ground • Switch off plant or stop operation immediately • Wear appropriate PPE and contain spillage using fuel/oil spill equipment • Contact line manager/specialist/spill response service for advice

		• Clean up contaminated area and dispose of contaminated material in line with the EN-f-010 Site Waste Management Plan and EN-p-001 Waste Management Procedure (Hazardous Waste) • Follow procedure in PFC009 Environmental Drips and Spills for reporting spill/leak incidents. As per PFC009, report incident within 2 hours of occurrence to HSE Team using PIM Mobile App form HS-a-020 Incident Notification Form • Monitor watercourses (if present) for extent of contamination using PIM Mobile App form En-a-003 Daily Watercourse Monitoring Record

8.5.2. Paint (including spray paints) and Thinners

Location	Site operation	Response Measures
Whole site	Plant Maintenance, Road Marking; Engineers Setting Out	• Put item onto drip tray or spill nappy to stop any more from leaking onto ground • Wear appropriate PPE and contain spillage using chemical/maintenance spill equipment • Contact line manager/specialist for advice • Clean up contaminated area and dispose of contaminated material in line with the EN-f-010 Site Waste Management Plan and EN-p-001 Waste Management Procedure (Hazardous Waste) • Monitor watercourses (if present) for extent of contamination using PIM Mobile App form En-a-003 Daily Watercourse Monitoring Record • Follow procedure in PFC009 Environmental Drips and Spills for reporting spill/leak incidents. As per PFC009, report incident within 2 hours of occurrence to HSE Team using PIM Mobile App form HS-a-020 Incident Notification Form

8.5.3.Detergents and Degreasers

Location	Site operation	Response Measures
Whole site	Plant/Vehicle Maintenance	• Put item onto drip tray or spill nappy to stop any more from leaking onto ground • Wear appropriate PPE and contain spillage using chemical/maintenance spill equipment • Contact line manager/specialist for advice • Clean up contaminated area and dispose of contaminated material in line with the EN-f-010 Site Waste Management Plan and EN-p-001 Waste Management Procedure (Hazardous Waste) • Monitor watercourses (if present) for extent of contamination using PIM Mobile App form

		En-a-003 Daily Watercourse Monitoring Record • Follow procedure in PFC009 Environmental Drips and Spills for reporting spill/leak incidents. As per PFC009, report incident within 2 hours of occurrence to HSE Team using PIM Mobile App form HS-a-020 Incident Notification Form

8.5.4. Ad Blue

Location	Site operation	Response Measures
Whole site	Plant/Vehicle Maintenance	• Put item onto drip tray or spill nappy to stop any more from leaking onto ground • Switch off plant or stop operation immediately • Wear appropriate PPE and contain spillage using maintenance/chemical spill equipment • Contact line manager/specialist/spill response service for advice • Clean up contaminated area and dispose of contaminated material in line with the EN-f-010 Site Waste Management Plan and EN-p-001 Waste Management Procedure (Hazardous Waste) • Monitor watercourses (if present) for extent of contamination using PIM Mobile App form En-a-003 Daily Watercourse Monitoring Record • Follow procedure in PFC009 Environmental Drips and Spills for reporting spill/leak incidents. As per PFC009, report incident within 2 hours of occurrence to HSE Team using PIM Mobile App form HS-a-020 Incident Notification Form

8.5.5.Other Chemicals

Location	Site operation	Response Measures
Whole site	Plant/Vehicle Maintenance	• Put item onto drip tray or spill nappy to stop any more from leaking onto ground • Switch off plant or stop operation immediately • Wear appropriate PPE and contain spillage using maintenance/chemical spill equipment • Contact line manager/specialist/spill response service for advice • Clean up contaminated area and dispose of contaminated material in line with the EN-f-010 Site Waste Management Plan and EN-p-001 Waste Management Procedure (Hazardous Waste) • Monitor watercourses (if discharging) for extent of contamination using PIM Mobile App form En-a-003 Daily Watercourse Monitoring Record • Follow procedure in PFC009 Environmental Drips and Spills for reporting spill/leak incidents. As per PFC009, report incident within 2 hours of occurrence to HSE Team

		using PIM Mobile App form HS-a-020 Incident Notification Form

8.5.6. Freshly Mixed Concrete and Concrete Washout

Location	Site operation	Response Measures
Whole site	Concrete Works; Concrete Washout	• Stop work • Wear appropriate PPE to stop and contain as much of the spill as possible • Stop any runoff going into watercourses • Contact line manager/specialist/spill response service for advice • Clean up contaminated area and dispose of contaminated material in line with the EN-f-010 Site Waste Management Plan and EN-p-001 Waste Management Procedure • Monitor watercourses (if present) for extent of contamination using PIM Mobile App form En-a-003 Daily Watercourse Monitoring Record • Follow procedure in PFC009 Environmental Drips and Spills for reporting spill/leak incidents. As per PFC009, report incident within 2 hours of occurrence to HSE Team using PIM Mobile App form HS-a-020 Incident Notification Form

8.5.7. Silt and Fine Materials (<0.06mm)

Location	Site operation	Response Measures
Whole site	Dewatering; Surface Run-off; Plant Movement; Pumping Operations	• Stop activity in the works area • Stop further watercourse contamination by removing or reducing the source of silty water (follow actions in section 6 for silt) • Install silt fencing/hay bales/silt sock to stop any more silt pollution • Contact line manager/specialist for advice • Monitor watercourses (if present) for extent of contamination using PIM Mobile App form En-a-003 Daily Watercourse Monitoring Record • Report incident within 2 hours of occurrence to HSE Team using PIM Mobile App form HS-a-020 Incident Notification form

8.5.8. Sediment (>0.06mm)

Location	Site operation	Response Measures
Whole site	High flow rain water run-off (e.g. during	• Stop activity in the works area • Stop further watercourse contamination by removing or reducing the source of sediment

	floods entraining larger particles); Vehicle or plant movement; Collapse of channel sides in on-site streams due to works near water	(follow actions in section 6 for sediment) • Contact line manager/specialist for advice • Monitor watercourses (if present) for extent of contamination using PIM Mobile App form En-a-003 Daily Watercourse Monitoring Record • Report incident within 2 hours of occurrence to HSE Team using PIM Mobile App form HS-a-020 Incident Notification form

8.5.9.Sewage/Foul water

Location	Site operation	Response Measures
Whole site	Emptying Cess Pit/Septic Tank	• Wear appropriate PPE to stop further watercourse contamination by removing or reducing the source of sewage/foul water (follow actions in section 6 for sewage/foul water) • Contact line manager/specialist/spill response team for advice • Clean up contaminated area and dispose of contaminated material in line with the EN-f-010 Site Waste Management Plan and EN-p-001 Waste Management Procedure • Monitor watercourses (if present) for extent of contamination using PIM Mobile App form En-a-003 Daily Watercourse Monitoring Record • Follow procedure in PFC009 Environmental Drips and Spills for reporting spill/leak incidents. As per PFC009, report incident within 2 hours of occurrence to HSE Team using PIM Mobile App form HS-a-020 Incident Notification Form

8.5.10. Wash water from vehicle/wheel cleaning

Location	Site operation	Response Measures
Whole site	Washing down plant vehicles and machinery; Digging out tracks	• Stop activity and move it to designated washout area • Stop any runoff using clay/earth bunds • Stop watercourse contamination by installing booms downstream of the area and using drainage covers • Contact line manager/specialist for advice • Monitor watercourses (if present) for extent of contamination using PIM Mobile App form En-a-003 Daily Watercourse Monitoring Record if polluted or at risk of becoming polluted

		• Report incident within 2 hours of occurrence to HSE Team using PIM Mobile App form HS-a-020 Incident Notification form

8.5.11. Emissions to the atmosphere of fumes and dust (silica, wood and lower toxicity)

Location	Site operation	Response Measures
Whole site	Plant/vehicle use and material transportation; Congestion of roads; Cutting/chasing concrete or stone; Concrete batching; Raking mortar; Grinding with handheld tools; Blasting; Cutting plasterboard; Excavating dry material; Welding; Cutting Wood	• Stop activity and remove personnel to fresh air • Wear correct PPE and begin using dust suppression and extraction to remove remaining dust from atmosphere • Contact line manager/specialist for advice • Monitor air quality using EN-a-004 Air Quality Monitoring Record • Report incident within 2 hours of occurrence to HSE Team using PIM Mobile App form HS-a-020 Incident Notification form

8.5.12. Noise (from construction operations)

Location	Site operation	Response Measures
Whole site	Operating plant/vehicles; Pumping Operations	• Stop activity • Undertake noise monitoring at appropriate locations, using HS-a-048 HSE Noise Monitoring Record • Find other means of completing the task to reduce noise levels for receptors (as per Section 6 for Noise) • Wear appropriate PPE for the noise level monitored, erect noise screens and appropriate signage. Stop all work if noise is over safe working limit • Contact line manager/specialist for advice • Report incident within 2 hours of occurrence to HSE Team using PIM Mobile App form HS-a-020 Incident Notification form

8.5.13. Light

Location	Site operation	Response Measures
Whole site	Site compounds Activities; Use of light towers/security lighting	• Stop work if outside of site working hours • Face lighting towers downwards and away from receptors • Turn off any unnecessary lights • Contact line manager/specialist for advice • Report incident within 2 hours of occurrence to HSE Team using PIM Mobile App form HS-a-020 Incident Notification form

8.5.14. Cleaning Solvents (e.g. Bleach)

Location	Site operation	Response Measures
Toilets, Welfare	Cleaning of toilets and welfare; Delivery of cleaning solvents; Storage of cleaning solvents; Emptying Septic Tank	• Put item onto drip tray or spill nappy to stop any more from leaking onto ground • Wear appropriate PPE and contain spillage using maintenance/chemical spill equipment • Contact line manager/specialist/spill response service for advice • Clean up contaminated area and dispose of contaminated material in line with the EN-f-010 Site Waste Management Plan and EN-p-001 Waste Management Procedure (Hazardous Waste) • Monitor watercourses (if present) for extent of contamination using PIM Mobile App form En-a-003 Daily Watercourse Monitoring Record • Follow procedure in PFC009 Environmental Drips and Spills for reporting spill/leak incidents. As per PFC009, report incident within 2 hours of occurrence to HSE Team using PIM Mobile App form HS-a-020 Incident Notification Form

8.5.15. Waste

Location	Site operation	Response Measures
Whole site	Use of Welfare Facilities	• Close any open skips that are producing wind-blow litter • Check septic tank for any signs of overflow and organise emptying if appropriate • Contact line manager/specialist for advice

	Disposal of Waste	• Report incident within 2 hours of occurrence to HSE Team using PIM Mobile App form HS-a-020 Incident Notification form • EN-f-010 Site Waste Management Plan and EN-p-001 Waste Management Procedure to be referred to in the event of any waste-related incident

9. MONITORING OF POTENTIAL POLLUTANTS

The following pollution monitoring will be carried out on this site and recorded in Appendix 2:

9.1. Watercourses

Monitoring Locations	Monitoring Document	Monitoring Frequency	Parameters Monitored
Irish Sea (north of site)	EN-a-003 Environment - Watercourse Monitoring Record – Daily	Daily	Oil film, cloudiness, site activity, rainfall, presence of contamination
Whole site	EN-a-001 Environment - Inspection: Daily Check (**Mandatory**)	Daily	Weather, erosion control measures, visual pollution, site activity, maintenance of mitigation measures (silt fencing and spill nappies used), spill kit and hazardous waste positioning, energy efficiency, other observations
Whole site	EN-a-008 Environment - ECOW Log – Quarterly (**Environmental Specialist Use Only**)	Quarterly (minimum), or: - At major site activity or task change; - After spill or discharge incident occurs; - If new species are found on site; - If environmental restrictions/boundaries are implemented;	Turbidity (taken quarterly as a minimum if watercourse/s are present on site), weather, site activity, invasive species, environmental restrictions, positive actions and advisory comments.

		- Where frequent turbidity monitoring is mandatory as part of the works.	

9.2. Noise

Monitoring Locations	Monitoring Document	Monitoring Frequency	Parameters Monitored
Main works area, residential dwelling	HS-a-048 HSE Noise Monitoring Record	As required	Description of works, section 61, weather conditions, noise monitor details, monitoring date, time and location, duration, distance from noise source, noise levels

9.3. Dust and Fumes

Monitoring Locations	Monitoring Document	Monitoring Frequency	Parameters Monitored
Area of dust production	EN-a-004 Air Quality Monitoring Record	As required	Weather conditions, ground conditions, air quality, extent of dust spread, actions required and those taken

Monitoring locations are shown on the Plan of the Site (Appendix 1)

Publish an electronic copy of this completed document, or scanned copy if completed by hand, to Pansophy project pool: **07.08.02 Environmental Plan**. Click this hyperlink EN-f-015 - Pollution Control Plan to check that you have used the latest template version.

APPENDIX 1 - PLAN OF SITE

APPENDIX 2 - POLLUTANT MONITORING RECORDS