

Water and Pollution Prevention Plan

For



At

Mitton Road, Whalley.

Section 2 - WATER POLLUTION PREVENTION

The site does not need to be next to a river/watercourse to cause a problem. Any pollutants getting into surface water drain or groundwater can end up in a river/watercourse, even if it is a distance away (note: spillages of oil can cover an area the size of two football pitches). In order to prevent water pollution, the following control measures will be employed:

Control Measures

- When work is to be carried out near the watercourse minimise interruption to flows and allow for the continued operation of land drainage systems in the area.
- Before work commences any matters, which are identified by the Environment Agency permit will be addressed by Prospect Homes (GB) Ltd.
- All site roads and site entrances shall be kept clear of mud or debris this will be achieved by utilising road sweepers and wheel wash facilities as required during times when there is a risk of debris leaving the site boundary.
- All fuel, oils, etc will be stored on an impervious base. Fuel tanks will be double skinned and have a capacity of equivalent to at least 110% of the volume of the inner tank. All valves and trigger guns will be protected from vandalism and unauthorised interferences and will be turned off and securely locked when not in use.
- All mobile plant will be refuelled in a designated area and away from drains or watercourses.
- All stockpiled materials are to be formed away from water course and where required protected from excessive run off by silt fence if necessary.
- All surface water run-off into gully will be protected with gully bags silt protect for the duration of the works.
- Any pumped groundwater will have a silt sock or pollution sock as required fixed to the out-let and either pumped onto open ground or passed through a settlement tank subject to the quantities requiring removal.
- A designated area for the washing out of ready mixed lorries will be established, where required. washings will not be allowed to flow into any drain or watercourse. The concrete wash out area will be monitored and clean out and waste will be removed off site to a licensed tip.
- Spill kits (including pollution boom), drain stoppers will be available to deal with any spillage.
- Any head walls are to be protected with silt run off measures i.e. straw bales or Similar

Any collected surface water will be channelled across the development to the new road footprint with the surface water draining through the road gullies (please refer to

accompanying drainage layout ref: 200903-EDGE-XX-XX-DR-C-2004_DRAINAGE LAYOUT[P13]) , which will be filled with straw and capped with porous membrane to mitigate any silt run-off. The water will enter the into the development surface water drainage network which will outfall / be connected to the existing adopted surface water network with a discharge rate matching the approved rate for the development.

Section 3- EMERGENCY PROCEDURE

CONTACT NAMES AND TELEPHONE NUMBERS

	Contact Name	Telephone Number
Environment Agency Emergency response for contamination of Water course	Emergency Hotline	0800 80 70 60
Prospect Contracts Manager		
Health and Safety Dept.		

Contact the above in the event of a pollution incident that results in: -

POLLUTION OF CONTROLLED WATER

(Pollution is the discharge of poisonous, noxious or polluting materials including silt, cement, sewerage, diesel or other polluting matter)

CONTROLS

- The Environment Agency must be informed immediately, along with the Health & Safety department.
- Prospect Homes (GB) Ltd will have appropriate materials on site for use in the event of a spillage i.e. spill kit, Boom, Gully Stoppers, sand, sandbags, temporary rings as required.
- Immediate steps to minimise impact or incident and to mitigate any damage must be carried out including blocking all drains in the adjacent spill area, seal the last outlet before leaving site to contain the pollution on site. Assess the adjacent water course for contamination and deploy spill kit and pollution boom.
- All spillages must be immediately mopped up and placed in skip to be removed off site to approved disposal site.
- It may be possible to minimise the pollution by skimming off any affected land with an excavator and placing the contaminated earth in an approved storage area, to be removed from site, if required, to a site which is registered to accept that type of pollutant.
- A full assessment and investigation of the incident will be carried out and the proposed remedies to control the risk of pollution leaving site.
- Accompany Environment Agency Representative whilst on site and offer every

assistance during their investigation.

Section 4 - TOOLBOX TALK

ENVIRONMENT ISSUES

POLLUTION PREVENTION

- All storage tanks must be double skinned
- Clean up all spillage immediately with absorbent materials, which are available on site and dispose of as directed by site management.
- Ensure that any leaking drums or containers are out of use and removed off site.
- Ensure that any overflow pipes on any storage tanks do not discharge contents.
- Use the appropriate containers for different materials. Make sure that they are sturdy, in good condition, not liable to leak and clearly marked with their contents.
- Secure the site and sensitive containers from the risk of vandalism/theft i.e. locks fitted to valves on storage tanks, fencing.

GROUNDWATER POLLUTION

- Oil is a common and highly visible form of pollution because of the way it spreads. Even a small quantity can cause a lot of harm i.e. five litres of oil is enough to cover a small lake.
- Oil accounts for one quarter of all pollution incidents. The Environment Agency deals with over 6,000 oil pollution incidents each year. The most commonly encountered types of oil are diesel, waste oil and petrol.
- Oil forms a film on the surface of rivers/streams and lakes, which can drastically reduce the level of oxygen in the water, making it difficult for fish to breathe. It can also coat plants and animals that come into contact with it. Large quantities of water are taken from rivers for use after treatment as drinking water. Oil contamination makes rivers unfit for this purpose.
- Silty waters should never be pumped directly to a river/stream or surface water drain always fit silt bags on pumps.
- Silt is a non-toxic pollutant and in the absence of any other contaminants silty waters can easily be disposed of by pumping to a settlement tank or irrigated over a grassed area once the Environment Agency has been consulted.
- One gallon of oil can cover an area of water the size of two football pitches.
- Dispose of all canteen/office waste in designated skip. Litter is a pollutant too and must not be allowed to enter a watercourse.
- If an oil/derv/chemical spill occurs, try to stop the spill from entering any drains or watercourses using earth or sandbags to absorb it. NEVER hose it down. Inform site management immediately.

REMEMBER

Pollution is Everyone's Responsibility

		RISK ASSESSMENT		Ref: Surface Water		Caldwell Construction Ltd Caldwell House, Brick Kiln Lane, Etruria, Stoke on Trent Staffordshire ST4 7BS				
Surface Water Mitigation Trench										
Client:		Prospect Homes				Date: Apr 2022				
Contract:		Mitton Road, Whalley				Review Date: Apr 2023				
Location:		Whalley, Lancashire.								
Job No:		-								
INITIAL RISK RATING						PEOPLE AT RISK				
LIKELIHOOD	Very Frequent	☐	Frequent	☒	Occasional	☐	Rare	☐	Very Rare	☐
SEVERITY	Fatal	☒	Major	☐	Moderate	☐	Minor	☐	Insignificant	☐
RISK RATING:	HIGH RISK		☒	MEDIUM RISK		☐	LOW RISK		☐	
HAZARDS IDENTIFIED										
1	Damage to the Local Environment					☐	☐	☒	☒	
2	Delivery of Materials and Equipment					☐	☐	☒	☐	
3	Lifting Operations					☒	☒	☐	☐	
4	Lines of Communication					☐	☐	☒	☐	
5	Manual Handling Operations					☒	☐	☐	☐	
6	Persons not involved in the task including members of the Public					☐	☐	☐	☒	
7	Plant and Machinery					☒	☒	☐	☐	
8	Storage of Materials					☒	☒	☐	☐	
9	Utility Services					☒	☐	☐	☐	
10	Weather Conditions					☒	☐	☐	☐	
11	Working at Height					☒	☐	☐	☐	
Damage to the Local Environment										
STANDARD CONTROL MEASURES						ACTION BY				
1	1	Washout areas are kept a minimum of 10m away from watercourses and drains.				CCL Operatives and Supervision				
	2	Drip trays provided and placed under all small plant where not double bunded.				CCL Supervision				
	3	Fuel spillage kits provided with every machine over 8T at all times.				CCL Supervision				
	4	Where fuel is being stored, this is at a location agreed with Prospect Homes that is a minimum of 20m away from any water course.				CCL Operatives and Supervision				
	5	Tree's that are under a Tree Protection Order are identified and fenced off.				CCL Operatives and Supervision				
Delivery of Materials and Equipment										
STANDARD CONTROL MEASURES						ACTION BY				
2	1	Before materials and equipment are brought on to Site, arrangements are agreed with the PC to identify a designated laydown area.				Prospect Homes and CCL Supervision				
	2	Consultation is undertaken with Prospect Project Management to ensure that deliveries of materials and equipment are planned prior to them arriving on site.				Prospect Homes and CCL Supervision				
	3	This includes the times that the deliveries are made, conditions attached to the deliveries and methods that materials and equipment will be unloaded.				Prospect Homes and CCL Supervision				
	4	Where persons are required to work at height to unload materials and/or equipment this will be undertaken with suitable and sufficient provisions in place to prevent falls.				CCL Supervision				

Lifting Operations			
STANDARD CONTROL MEASURES			ACTION BY
3	1	The lift is planned before any lifting activities take place using the lift plan contained within the document.	Prospect Homes and CCL Supervision
	2	Thorough examination has been undertaken on the mechanical excavator within the last 12 months.	Prospect Homes and CCL Supervision
	3	Thorough examination of lifting accessories has been undertaken within the last six months.	Prospect Homes and CCL Supervision
	4	Pre-use inspection is undertaken on a daily basis before lifting equipment and accessories are used.	CCL Supervision
	5	Slinger and banksman used to undertake the lifting operation.	Lift Supervisor
	6	Tag lines used to position the lifted materials into position. No persons handle the load until it is below knee height.	Slinger/Banksman
	7	Only persons involved in the lifting operations are allowed in the working zone.	CCL Supervisor Task Operatives
Lines of Communication			
STANDARD CONTROL MEASURES			ACTION BY
4	1	All task personnel are inducted on to the worksite by the Principal Contractor before any work activities take place.	CCL Operatives and Supervision
	2	Pre-start meeting held with all persons involved in the task.	All Stakeholders
	3	Task operatives briefed on utility services location.	CCL Supervision
Manual Handling Operations			
STANDARD CONTROL MEASURES			ACTION BY
5	1	Where practicable all items over 20kg will be lifted and handled with suitable lifting aids where practicable.	CCL Operatives and Supervision
	2	Materials and equipment are sighted as close to the working area as is possible and safe.	CCL Supervision
Persons not involved in the task including members of the Public			
STANDARD CONTROL MEASURES			ACTION BY
6	1	The working area where the task is taking place is protected by a "Working Zone".	CCL Operatives and Supervision
	2	The zone is defined by pedestrian barriers to create a defined working area.	CCL Supervision
Plant and Machinery			
STANDARD CONTROL MEASURES			ACTION BY
7	1	Plant and machinery is under a regime of maintenance and inspection, operators are trained and competent.	CCL Operatives and Supervision
	2	A register of equipment is maintained by the CCL Supervisor.	CCL Supervision
	3	Plant and machinery is stored securely when not in use.	CCL Operatives and Supervision
	4	Equipment is refuelled in a designated area that is agreed with the Site Management.	Principal Contractor and CCL Supervision
	5	Spill kits are provided for plant and machinery where the equipment is not double banded.	CCL Supervision
	6	Seat belts are worn at all times when operating plant.	Plant Operators and CCL Supervision
	7	Operating plant has a hazard beacon that is flashing when in use.	Plant Operators and CCL Supervision
	8	All plant/work equipment certification is held in site file/machine and weekly inspections of plant, work and lift equipment are recorded.	Plant Operators and CCL Supervision

Storage of Materials								
STANDARD CONTROL MEASURES						ACTION BY		
8	1	Hard standing in place that has been agreed with Principal Contractor for the storage of materials and equipment.				Principal Contractor and CCL Supervision		
	2	Materials are stored in order to prevent the risk of injury to those within in the laydown area.				Principal Contractor and CCL Supervision		
	3	Materials will not be stacked more than two sections high.				CCL Supervision		
	4	Clear walkways are provided around stored materials to reduce the risk of trips and falls.				CCL Operatives and Supervision		
Utility Services								
STANDARD CONTROL MEASURES						ACTION BY		
9	1	Utility service plans obtained for work area.				Principal Contractor and CCL Supervision		
	2	Utility services survey undertaken to identify the location of known services and to identify any unknown utility services that exist.				CCL Operatives and Supervision		
	3	Cable avoidance tool (gCAT4+ and generator used to assist in the survey.				CCL Supervision		
	4	All persons involved in the excavation activities are briefed on the utility services identified.				CCL Supervision		
	5	Known services will be marked out to indicate the location.				CCL Supervision		
	6	Permit to dig obtained from Principal Contractor before any excavation works take place.				Principal Contractor and CCL Supervision		
	7	Where utility services have been identified, safe digging practices are employed.				CCL Operatives and Supervision		
	8	No machinery or equipment is used within 0.5m of known utility services.				All Stakeholders		
Weather Conditions								
STANDARD CONTROL MEASURES						ACTION BY		
10	1	The task is planned taking in to account the weather forecasts to ensure that the conditions are suitable for the task to proceed.				Principal Contractor and CCL Supervision		
	2	Regular checks (daily) are undertaken to ensure that there is no significant change on the forecasts within the immediate location.				Principal Contractor and CCL Supervision		
	3	In addition to this consideration is given to the amount of rain forecast taking in to account that a significant amount of time will be spent on the task.				Principal Contractor and CCL Supervision		
Working at Height								
STANDARD CONTROL MEASURES						ACTION BY		
12	1	Working at height is avoided where practicable, where it is not practicable then fall prevention provisions are provided in terms of edge protection by means of ratchet straps around the parameter of the delivery vehicles.				Delivery Company / CCL Supervisor		
	2	Where edge protection is not practicable for unloading of vehicles bean bags will be used.				Delivery Company / CCL Supervisor		
	3	A safe means of access is provided the bund at all times.				CCL Supervisor		
PPE REQUIREMENTS		M = Mandatory at all times, T = Task Specific, NR = Not Required						
Hard Hat – BS EN 397		M	Ear Defenders – BS EN 352	T	Impact Resistant Eye Protection	T	Life Jacket	NR
High-vis – BS EN 471		M	FFP3 Dust Mask – BS EN 149	T	Gloves – BS EN 388 - suitable for the specific task	T	Waterproofs	T
Safety Boots – BS EN 345		M	Eye Protection – BS EN 166	T	Wellingtons with steel toe cap – BS EN 345	T	Other as specified by control measures	NR

SITE SPECIFIC HAZARDS				ADDITIONAL CONTROL MEASURES						
1				1						
2				2						
3				3						
4				4						
5				5						
6				6						
7				7						
8				8						
9				9						
10				10						
RESIDUAL RISK AFTER SITE SPECIFIC CONTROL MEASURES ARE PUT IN PLACE										
LIKELIHOOD	Very Frequent	☐	Frequent	☐	Occasional	☒	Rare	☐	Very Rare	☐
SEVERITY	Fatal	☐	Major	☐	Moderate	☒	Minor	☐	Insignificant	☐
RESIDUAL RISK RATING:	HIGH RISK		☐	MEDIUM RISK		☒	LOW RISK		☐	
Site Specific Risk Assessment review undertaken by:	Name:		Position:		Signature:		Date:			
	Lee Rigby		H&S Director				April 2022			
ADDITIONAL INFORMATION/GUIDANCE CAN BE OBTAINED FROM:					RELATED H&S ARRANGEMENTS					
Health and Safety Department Caldwell Construction Ltd Caldwell House, Brick Kiln Lane Etruria, Stoke On Trent Staffordshire ST4 7BS 					➤					
					➤					
					➤					
					➤					
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 METHOD STATEMENT		Ref: Surface Water		Caldwell Construction Ltd Caldwell House, Brick Kiln Lane, Etruria, Stoke on Trent Staffordshire ST4 7BS T: 01782 265532			
Surface Water Mitigation Trench							
Client:	Prospect Homes			Date:	Apr 2022		
Contract:	Mitton Road, Whalley			Review Date:	Apr 2023		
Location:	Whalley, Lancashire.			Creator:	Signature:		
Job No:	-			Lee Rigby	<i>L. Rigby</i>		
ACTIVITY DETAILS							
Activity	The activity consists of undertaking an excavation trench to mitigate surface water runoff from the residential development from entering into the watercourse.						
Supervision Details	The Supervision of the working activity is provided by a CCL Supervisor who holds SMSTS.						
Plant and Equipment	Tools and equipment that will be utilised to undertake the activity will be: Tracked excavator, Material Handling Dumper.						
Safety Induction	Before the work activity takes place, all persons involved in the task will be or have been inducted by the Principal Contractor.						
Emergency Arrangements	Emergency arrangements are provided by the Principal Contractor, these will consist of nominated First Aiders and Fire Marshalls with appropriate emergency equipment.						
Training Requirements	Task Supervisor is SMSTS, Machine Operators hold current CPC/SPORS Training,						
Other	-						
PPE REQUIREMENTS	M = Mandatory at all times, T = Task Specific, NR = Not Required						
Hard Hat – BS EN 397	M	Ear Defenders – BS EN 352	T	Impact Resistant Eye Protection	T	Life Jacket	NR
High-vis – BS EN 471	M	FFP3 Dust Mask – BS EN 149	T	Gloves – BS EN 388 - suitable for the specific task	T	Waterproofs	T
Safety Boots – BS EN 345	M	Eye Protection – BS EN 166	T	Wellingtons with steel toe cap – BS EN 345	T	Waders	T
Steps	Sequence of Work					Responsible	
Step 01	All task operatives will receive a Site Induction by the Principal Contractor (if this hasn't already taken place).					CCL Supervisor Principal Contractor	
Step 02	Before work starts, a pre-start meeting will be held with all work party members to ensure that there is a plan in place to undertake the working task safely. Arrangements will be agreed with Task Operatives and Principal Contractor on the action to take in the event of an emergency such as a fall from height.					CCL Operatives, Supervisor Prospect Homes	
Step 03	Operatives will wear the personal protective equipment in-line with the requirements set out in the PPE Section above.					All persons involved in task	
Step 04	A material's lay down area will be agreed with the Principal Contractor that is suitable and sufficient for the materials to be stored that allows safe access to and from the working zone whilst the works are being undertaken.					CCL Supervisor Principal Contractor	
Step 05	The working area (zone) will then be setup to create a working zone that is controlled. This will include both pedestrian barriers and heras fencing to create a secure working area that prevents access to unauthorised persons not involved in the task including members of the public.					CCL Operatives, Supervisor	
Step 06	A utility services survey will be undertaken to identify known services using the service plans provided by Prospect Homes and investigations undertaken with service locating equipment. Where it is found that there are existing services within the work area, trial holes will be undertaken to identify the location and depth of existing services and then the services will be identified by spraying up the surface of the ground and operatives involved in the task will be briefed on the services location. A permit to dig will then be obtained from the Principal Contractor taking in to account the services identified and the measures taken to prevent damage to those services. Safe digging practices will be employed within 0.5m of known utility services.					CCL Supervisor Principal Contractor	

Step 07	Once the materials and equipment have been delivered to site and stored within the materials laydown area initial works will be undertaken to create safe access to the work area.	CCL Supervisor Principal Contractor
Step 08	Once the working area is ready and the levels have been set-out by the CCL Engineer that is at least 8m away from the water course, action will then be taken to excavate existing earth material load it into the Material Handling Dumper, excavating a trench that is 460mm / 350mm that runs the length of the water course that is lined with terram and straw bales to trap silt leaving the development.	CCL Operatives, Supervisor Principal Contractor
Step 09	The excavated material will then be transported to the agreed laydown area using the Material Handling Dumper along the designated traffic routes. Traffic route planned and agreed with the Principal Contractor prior to starting the material transporting activity.	CCL Operatives, Supervisor Principal Contractor
Step 10	The transporting of earth material will be continued until the excess earth material, vegetation and top soil has been removed to a layer of natural clay.	CCL Operatives, Supervisor Principal Contractor
Step 11	Once the excavation trench has been completed, a catch pit 4m x 2m x 1m will then be created at the down stream end of the excavated trench that will be lined with terram and straw bales to become a final containment of silt from the development.	CCL Operatives, Supervisor
Step 12	Once the trench and catch pit is complete, consultation with the Principal Contractor will be held to obtain sign off to ensure that the works meet the specification laid out by Prospect Homes.	CCL Operatives, Supervisor Prospect Homes
Step 13	When the task has been signed off then work will be undertaken to remove all work equipment from the working area and then the working zone will be dismantled.	CCL Operatives, Supervisor
Step 14	Once complete, the trench and surround areas will be handed back to Prospect Homes.	CCL Operatives, Supervisor
Step 15	Regular inspections and maintenance of the trench and catch pit will be carried out under the guidance of Prospect Homes.	CCL Operatives, Supervisor
Where there is a risk of silt entering the water course as a result of these work activities, all works must cease with concerns raised to the Principal Contractor and CCL Site Management.		

Section 6 Monitoring Record

Where works are carried out which could have the potential for contaminating a water course, complete the following.

If a pollution incident occurs and has been cleaned up – carry out a post pollution inspection on any area which had the potential to be polluted for a minimum of one week after the incident

[illegible]

