

Sean Crowley Palnt hire for Clare Co Co.	Site Specific Method Statement Crovraghan Slipway and retaining wall	Revision 00	Date _25/01/19_____
	Task Excavate out shale slipway and replace with Concrete and construct concrete retaining wall	MS-01	

Contractor	Name: Sean Crowley Planthire	Address: Kilmihil, Co. Clare	Email: Crowleyplant@gmail.com
Project Name	Crovraghan Slipway		Tel: 087 6813969
Description of the Task/Activity	<ul style="list-style-type: none"> • Set up site compound and secure the site. • Set out site and cordon off. • Excavate for the wall and fit steel • Pour foundation. • Set up shuttering for the wall • Pour concrete. • Level top of wall, remove shuttering • Dig out excess chip shale slipway and stage on site. • Install re bar to agreed spec. • Fit shuttering and secure. • Pour concrete and level to agreed texture. • Remove all plant and material from site 		
Site Address/Location:	Crovraghan Pier Kiladysart Co. Clare	Start Date/Time: 09:00	TBC at Spring Low tide
		Finish Date/Time 17:00	TBC
Personnel Involved	Name		
	Sean Quinlivan	Foreman and machine driver	
	Gearoid Cleary	Foreman/Driver	
	Ciaran Cleary		
	Kevin Scales		
	Denis McMahan		
	Seamus Reidy		
	Eamonn Downes		
	Damien Downes		
	Ready mix drivers		
Part Time Safety Advisor	Brendan McAuliffe B MacSafety Ltd 12 Parnell Grove Gort Road Ennis	Tel: 087 2034670	

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Key Plant & Tools	<ul style="list-style-type: none"> • Hitachi 130 excavator • Site dumpers • A long reach Hyundai 210 • Peri shuttering
Key Materials	Concrete and rebar
Site Specific Hazards: (or refer to the task specific risk assessment(s))	Risk Assessments available in company Safety Statement and also see specific risk assessments at the end of this document
Specific Staff Training	Company Induction, Site Specific Induction, Safe Pass, Manual handling, Abrasive Wheel training, CSCS for machine operators

Waste Management						
 wood & timber Timber	 metals Metal	 mixed recycling Mixed Recycling	 General waste non hazardous General Waste	 Hazardous waste Hazardous	 Gypsum Gypsum	Other
Yes	Yes	Yes	Yes	No	No	No
Hazardous Waste Details			Any oil on site will be banded and no plan for haz waste			
Storage Arrangements for the above:			Skips to be provided by Crowley Plant Hire Ltd			

The following is to be in place for all works:

- All Sean Crowley employees will be inducted prior to commencement of work on site by the Site Manager.
- All Sean Crowley Employees will have current Safe Pass Cards, CSCS, Abrasive Wheel, and Manual Handling training.
- All Sean Crowley Employees will wear necessary P.P.E.

The contractor shall carry out the works in accordance with all applicable statutory acts and regulations including:

- The Safety, Health and Welfare at Work Act, 2005
- The Safety, Health and Welfare at Work (General Application) Regulations 2007-2016

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- The Safety, Health and Welfare at Work (Construction) Regulations, 2013


<p>Sequence of Operations: (include sketches if required)</p>	<p><u>Safety Measures to be in place before works commence:</u></p> <ul style="list-style-type: none"> • This Method Statement will be approved by Sean Crowley . • All staff will receive the Site Induction • All operatives will be fully trained and copies of training certificates will be available for inspection including: first aider, excavator driver; truck driver, dumper driver. • All operatives will wear the following PPE: safety boots, safety helmet and high visibility vests. Additionally, safety wellington boots, gloves and safety glasses will be worn when pouring concrete. Life vests to be worn at the water's edge and a lifebuoy on standby. • Gloves to be worn at all times. • Welfare facilities will be in place in a suitable position to be agreed on site by CPH Supervision. • Weekly inspection forms will be in place for Plant. • GA1 forms in place for plant • AF3 forms will be in place for the excavations to be completed weekly by the site engineer. <p><u>Environmental Measures to be in place before works commence:</u></p> <ul style="list-style-type: none"> • Spill kits will be available. Personnel will be trained in use of the same. • Any fuels or lubricants will be stored in bunded area with 110 % capacity. • Waste oils and hydraulic fluids will be collected, stored in sealed containers and disposed of off-site. • Silt trap to be created before any other work takes place once the site is secured. • All shall be made aware of the Environmental Screening <ul style="list-style-type: none"> • Sean Crowley personnel involved in the tasks to be undertaken will walk the works area to review any potential or known risk sources. Particular attention will be paid to the possibility of other workers entering the work area and also the likelihood of coming into contact with services underneath the ground. Ground will be scanned for services before the slipway is excavated. • All involved will be inducted by the Site Manager and will have current safe pass and other specific training as appropriate. • Full PPE will be worn including gloves and Hearing protection as necessary. • Signage will be in place and an exclusion zone/fencing will be set up for the
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	<p>operation. Imperative no members of the public have access to the works area. Excavator(Long reach) enters work zone and proceeds to the waters edge at low tide. This machine then excavates a trap out from the end of the slip and banks up the excavated material at the water edge. All silt running down from the slipway will then drop into the silt trap and the water will run out over the embankment created into the river.</p> <ul style="list-style-type: none"> • The line of the new retaining wall is then marked out and the foundation for same is excavated. Excavated material is moved on site with site dumper. • Rebar is then fitted in the excavation as per spec and starter bars are left sticking up for the wall. • Mushrooms are fitted on the started bars • Shuttering is fitted and secured at either side end of the excavation. • Concrete is then poured and once concrete has cured shuttering is then removed. • Rebar is then made up for the wall and fitted and tied in place. • Shuttering is then lifted into place and tie bolts with swirly nuts fitted. Once all shuttering is in place it is plumbed and secured in place with push pull rods. • Once it is secured and checked concrete is then poured in the wall and vibrated with a poker vibrator to eliminate air pockets. • Once concrete has cured the shuttering is struck off and removed from site • The new slipway is then excavated out to agreed depth as per spec and excavated material is moved on site with site dumper. • Rebar is then made up and put in place at the slipway(starting at low tide at section nearest the water). • Excavations are to be checked daily and results of same recorded on an Af3 form. Excavation also to be reviewed during the course of the working day and if there is a risk of a landslide or subsidence, then work is to be ceased and the issue highlighted with the onsite CPH project foreman. • Shuttering is then made up and put around this first section of the slipway. • Once the shuttering is all complete, secured and checked the concrete can then be poured. • The concrete will be rapid cure concrete and will timed to be poured as the tide is on its way out to give the maximum amount of time for it to cure before the tide comes back in again. • The concrete is then screeded to the correct texture as per the agreed specification. • Once concrete has cured the shuttering is struck off and moved to the next section • The above procedure is then repeated for the remaining sections of the slipway back up from the water.
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	<ul style="list-style-type: none"> Machines are refueled from a bunded bowser with no storage of fuel on site, all protocols re working on client site near river Fergus are followed at all times. Housekeeping is sorted on an ongoing basis as the job progresses. Once all work is completed all tools and machinery is removed from site. All excess material is removed and site left ready for wall construction. All barriers and signage is left in place 						
Hazardous Substances: (Attach MSDS if required)							
	Very Toxic	Harmful/Irritant	Corrosive	Dangerous For the environment	Oxidising	Highly flammable	Explosives
Applicable:	No	No	No	No	No	No	No
Storage Arrangements:	Within work zone.						
Details of Permits to Work:	Not applicable.						
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 equipment will be certified.. Certs available with Site Manager.						
Required Personnel Protective Equip.:							Other: 1. Hi-Viz 2. 3.
	Safety Boots	Hard Hats	Safety Gloves	Hearing Protection	Eye Protection	Not required	

Emergency Procedures:		
	Name of On-Site First Aider:	
	First Aid Box Location:	Site office and/or Site Supervisor company Jeep.

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	Location of Nearest Hospital and Medical Centre:	Ennis General Hospital University Hospital Limerick
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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 companies Health and Safety Policy.

Prepared by: Brendan McAuliffe

Position: Safety Advisor

Date: / / 2019

Method Statement Briefing Record

Briefing delivered by: Sean Crowley or Sean Quinlivan Position: Site Foreman Date:

We (the undersigned) have read and understood the attached method statement and will comply with the specified requirements and control measures. If the work activity changes or deviates from that originally envisaged, we will seek further advice and request an amended method statement.

Name (Print)	Signature	Date
		/ / 2019
		/ / 2019
		/ / 2019
		/ / 2019

Relevant Risk Assessments

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JOB SPECIFIC RISK ASSESSMENT

<p>In each case where a Risk is relevant to the task the relevant word should be placed into the box adjacent to the risk. The 1st box is for "Likelihood of it happening" is it "Almost Certain, Likely, Possible or Unlikely". Then in the 2nd box the "Outcome of Risk" column the words to be used are "No Injury, 1st Aid, Lost Time and Serious Injury". As can be seen in the table the "Result" is the "Likelihood x Risk". After the controls are put in place the same process should be completed to get the "Revised Result".</p>	Likelihood of it happening	Outcome of Risk			
		No Injury	1st Aid	Lost Time	Serious Injury
	Almost Certain	<i>Medium</i>	<i>Medium</i>	<i>High</i>	<i>High</i>
	Likely	<i>Low</i>	<i>Medium</i>	<i>Medium</i>	<i>High</i>
	Possible	<i>Controlled</i>	<i>Low</i>	<i>Medium</i>	<i>Medium</i>
	Unlikely	<i>Controlled</i>	<i>Controlled</i>	<i>Low</i>	<i>Medium</i>

Principles of Prevention					
Have the Principles of Prevention been used when compiling this method statement				Yes	No
Principle of Prevention	Control measures	Principle of Prevention	Control measures		
1 Avoidance of Risk	Cable Avoidance tools to be used to avoid underground services. Cranes and lifting equipment used for lifting.	5 Adapt to Technical Data	MSDS are available in the site file for any chemicals on the project.		
2 Evaluate Risk	By determining the depths of dig before excavations commence.	6 Substitute for less hazardous	Avoid use of ladders if possible. Use lifting equip instead of manual handling.		
3 Combated At source	Dust suppression will be in place when operating the consaw, hearing protection will be worn by all operatives in the vicinity of loud noise. Gloves work at all times	7 Policies and Procedures	ESB+HSA codes of practice, CPH and subcontractor Safety Statements Site Procedures as outlined at the site induction		
4 Adapt work to Individual	Where possible all lifting operations will be carried out by certified lifting	8 Collective measures	All leading edges will be protected with secured barriers.		

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	equipment, otherwise correct Manual Handling techniques to be used. Provide tower and fixed scaffold for access.		Fixed scaffold and mobile scaffold will be provided for access.
		9 Training and instruction	Safe Pass/CPH Induction/CSCS Cards/Man. Handling/Abrasive Wheels. Stage Specific RAMS & SSWP's. Operatives to have required training.

<p>In each case where a Risk is relevant to the task the relevant word should be placed into the box adjacent to the risk. The 1st box is for "Likelihood of it happening" is it "Almost Certain, Likely, Possible or Unlikely". Then in the 2nd box the "Outcome of Risk" column the words to be used are "No Injury, 1st Aid, Lost Time and Serious Injury". As can be seen in the table the "Result" is the "Likelihood x Risk". After the controls are put in place the same process should be completed to get the "Revised Result".</p>	Likelihood of it happening	Outcome of Risk			
		No Injury	1st Aid	Lost Time	Serious Injury
	Almost Certain	<i>Medium</i>	<i>Medium</i>	<i>High</i>	<i>High</i>
	Likely	<i>Low</i>	<i>Medium</i>	<i>Medium</i>	<i>High</i>
	Possible	<i>Controlled</i>	<i>Low</i>	<i>Medium</i>	<i>Medium</i>
	Unlikely	<i>Controlled</i>	<i>Controlled</i>	<i>Low</i>	<i>Medium</i>

ID	Generic Hazard	Likelihood of it happening	Outcome of Risk	Result	Risk Reduction Methods	Revised Likelihood of it happening	Revised Outcome of Risk	Revised Result
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R1	Access/Egress	Likely	1 st Aid	Medium	<ul style="list-style-type: none"> Access will be via defined site entrances A spotter will coordinate deliveries in and out of the works area. 	Possible	No injury	Controlled
R2	Access Equipment (Scaffolding, Ladders, Stairs etc.)	Almost Certain	Serious Injury	High	<ul style="list-style-type: none"> A secured ladder will be used to access the excavation. The excavation will be fenced off and signage placed in position. GA3 will be completed weekly 	Possible	No injury	Controlled
R3	Area Controls (Fencing, , Barriers, etc.)	Likely	1 st Aid	Medium	<ul style="list-style-type: none"> Area must be cordoned off with barriers while work is in progress Warning Signs will be put in place 	Possible	No injury	Controlled
R6	Entanglement in Moving Parts	Likely	1 st Aid	Medium	<ul style="list-style-type: none"> All safety guards must be in place Equipment to be checked prior to use 	Possible	No injury	Controlled
R7	Environmental Spills	Possible	Serious Injury	Medium	<ul style="list-style-type: none"> No discharge will be permitted directly in to river. Spill kits are to be on site. All personnel are to receive an environmental induction. 	Unlikely	No Injury	Controlled
R8	Equipment Failure	Possible	Serious injury	High	<ul style="list-style-type: none"> All lifting equipment to be certified and checked prior to use. GA2 completed weekly Site Engineer to establish lifting capacity of equipment required 	Unlikely	Serious Injury	Low

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R10	Exposure to Noise	Likely	Lost Time	Medium	<ul style="list-style-type: none"> • Ear protection to be worn if required 	Possible	No injury	Controlled
R11	Fire	Possible	First Aid	Medium	<ul style="list-style-type: none"> • Storage of Flammable materials to be in approved containers only. • Extinguisher to be stored in works area 	Unlikely	Controlled	Controlled
R12	Flying objects	Possible	First Aid	Medium	<ul style="list-style-type: none"> • Goggles to be worn during cutting operations 	Possible	1 st Aid	Low
R14	Hand Tools (Knives etc)	Likely	1 st Aid	Medium	<ul style="list-style-type: none"> • To be used in the correct manner 	Possible	No injury	Controlled
R15	Hazardous Materials including Dusts, concrete etc	Almost Certain	Lost Time	High	<ul style="list-style-type: none"> • Dust Masks to be worn in dry dusty conditions • Work gloves worn by operatives. 	Possible	No Injury	Controlled
R18	Housekeeping / Storage of Materials	Likely	1 st Aid	Medium	<ul style="list-style-type: none"> • Area to be kept tidy at all times • Skips to be provided for segregating waste 	Possible	No injury	Controlled
R19	Lack of Specific Training	Possible	Serious Injury	High	<ul style="list-style-type: none"> • PICW to monitor the activities of operatives. • Operatives will only use machinery they are trained for. 	Unlikely	Lost Time	Low
R21	Lifting (Slings, Shackles Concrete Skip etc.)	Possible	Lost time	Medium	<ul style="list-style-type: none"> • All lifting equipment to be appropriately certified and inspected prior to use. • Exclusion zones set up around lifts. • Engineer to determine load weight. 	Unlikely	No Injury	Controlled

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R22	Lighting	unlikely	1 st Aid	Medium	<ul style="list-style-type: none"> Works to be completed during day light hours 	Possible	No injury	Controlled
R23	Manual Handling	Likely	Lost time	Medium	<ul style="list-style-type: none"> Use mechanical means, or getting assistance from other workers and lift using the correct procedures. All operatives trained in manual handling 	Possible	No injury	Controlled
R24	Working beside the river	Likely	Lost Time	High	<ul style="list-style-type: none"> Edge protection to be in place at edge of river Life buoy secured near waters edge Life vests worn by operatives working beside the water 	Possible	No Injury	Controlled
R25	Power Tools (Including Grinders)	Possible	Lost Time	High	<ul style="list-style-type: none"> All tools are 110v and in good working order Equipment to be inspected before use All electrical to be PAT tested and lead of appliance tagged. Plant and tool register to be maintained. 	Possible	No Injury	Controlled
R26	Safety Equipment Failure	Possible	Lost Time	High	<ul style="list-style-type: none"> All tools are 110v and in good working order All electrical equipment to be PAT tested. Leads to be tagged. Plant Register and PAT log to be maintained. 	Possible	No Injury	Controlled
R27	Services (Underground or Overhead)	Almost Certain	Lost Time	High	Use safe digging techniques, hand dig trial holes to locate the position and depth of any known services, Agreed procedure will be in place with the client in relation to the positioning of Goalposts if relevant	Possible	No Injury	Controlled

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R28	Slips, Trips & Falls	Likely	Lost time	Medium	Keep area tidy at all times. avoid trailing leads or ropes	Possible	No injury	Controlled
R29	Excavations	Almost Certain	Serious Injury	High	Ground conditions will be assessed and recorded in the AF3, If required suitable measures will be put in place Batter banks if unstable	Possible	No Injury	Controlled
R30	Use / Control of Electricity	Possible	Serious injury	High	All tools are 110v and in good working order • Equipment to be inspected before use	Possible	No Injury	Controlled
R31	Weather Conditions	Likely	Lost time	Medium	Weather watch must be maintained at all times Works to be stopped if weather deteriorates	Possible	No injury	Controlled
R34	Working at Height	Likely	Lost time	High	All operatives must be trained in Working @Heights, open excavations to be protected Barrier around leading edges Minimise use of ladders	Possible	No injury	Controlled
R38	Infection	Possible	1 st Aid	Low	Gloves to be worn to prevent any infections Such as Weils Disease	Possible	No Injury	Controlled
R39	Reversing Vehicles	Likely	Serious injury	High	• Avoid reversing where possible- follow a one way system • Use a reversing assistant • Ensure reversing lights and sounders are working	Possible	No injury	Controlled
R40	Towing Plant	Almost Certain	Serious Injury	High	All lights must be working and in good condition A breakaway cable must be attached between the vehicles	Possible	No injury	Controlled

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					Operative must have the correct license			
R41	Working from the back of vehicles	Likely	Serious Injury	High	<ul style="list-style-type: none"> Always access vehicles using the hand holds /rails Never jump from vehicles Report/Clean slippery surfaces 	Possible	No injury	Controlled
R42	Operating Excavators	Almost Certain	Serious Injury	High	<ul style="list-style-type: none"> Ensure buckets/equipment are properly attached. Incorrectly engaged quick hitches can be fatal Operator must have a current CSCS card. Excavators must not be used within 500mm of an underground service 	Possible	No injury	Controlled
R44	Abrasive Wheels	Almost Certain	Serious injury	High	<ul style="list-style-type: none"> Only trained operatives to change disks Gloves + safety glasses to be worn Dust suppression for cutting concrete + dust masks. Run machine for a few seconds before cutting to make sure blade is rotating correctly. 	Possible	First Aid	Controlled
R45	Plant	Possible	Serious Injury	High	<ul style="list-style-type: none"> Carry out weekly GA2 Perform daily checks All plant to have GA1 thorough inspection completed within 1 year. Make driver aware of your presence before passing or approaching. CSCS training required for most plant operation 	Unlikely	First Aid	Controlled
R47	Power	Possible	Serious Injury	High	<ul style="list-style-type: none"> Power cables connecting transformers + generator to be protected by steel armour if going across site. Only 110v power on site 	Unlikely	1 st Aid	Controlled

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					<ul style="list-style-type: none"> Only trained electricians to work on electrics 			
R48	Crusher	Possible	Serious Injury	High	<ul style="list-style-type: none"> Crusher to be operated as per owners manual All guards and interlocks in place at all times Hearing protection to be worn if relevant when operating the crusher Hopper of crusher not to be overloaded at any time No unauthorised persons in the vicinity of the crusher 			

Environmental

ID	Generic Hazard	Likelihood of it happening	Outcome of Risk	Result	Risk Reduction Methods	Revised Likelihood of it happening	Revised Outcome of Risk	Revised Result
E1	Carbon & Fuel	Almost Certain	No Injury	Medium	<ul style="list-style-type: none"> Never leave plant running when not in use Report any defects immediately 	Possible	No Injury	Controlled
E2	Waste	Almost certain	No Injury	Medium	<ul style="list-style-type: none"> Ensure good housekeeping. All operatives are responsible for waste Only Licensed Operators to remove waste from site. 	Possible	No Injury	Controlled

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					<ul style="list-style-type: none"> Receipts for waste removal to be recorded in the site file 			
E3	Dust	Almost certain	1 st Aid	Medium	<ul style="list-style-type: none"> Use Tools fitted with water suppression units Use tools fitted with dust extraction and collection units Limit the amount of people in the work area 	Possible	No Injury	Controlled
E4	Noise	Almost certain	1 st Aid	Medium	<ul style="list-style-type: none"> Switch off tools when not in use Rotate operatives Reduce the numbers in that area. Wear Hearing Protection 	Possible	No Injury	Controlled
E5	Vibration	Almost certain	1 st Aid	Medium	<ul style="list-style-type: none"> Improve your blood circulation by massaging and exercising your fingers Wear gloves Rotate operatives 	Unlikely	No Injury	Controlled
E6	Water Pollution	Likely	No Injury	Low	<ul style="list-style-type: none"> Never allow water from vehicle washes to enter surface drains Never excavate in a watercourse/its banks without consent Do not leave spoil/materials where they can drain to surface water 	Possible	No Injury	Controlled

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					<ul style="list-style-type: none"> Avoid tracking plant through water courses Silt traps required if pumping near watercourses. 			
E7	Spillage	Possible	No Injury	Medium	STOP the leak at source CONTAIN use spill kit to contain the spill DIVERT the spill to prevent entering drains REPORT to your manager /supervisor	Possible	No injury	Controlled
E8	Chemicals	Almost certain	Serious Injury	High	<ul style="list-style-type: none"> Consult Safety Data Sheets. Wear appropriate PPE 	Possible	No Injury	Controlled
E9	Flora /Fauna	Almost Certain	No Injury	Medium	Look out for; nesting birds/bats/badger Roosts and setts must not be disturbed	Possible	No Injury	Controlled
E10	Noxious weeds	Possible	1 st Aid	Low	<ul style="list-style-type: none"> If these plants are on site do not disturb them If we need to remove them to do the works contact CPH. 	Possible	No Injury	Controlled
E11	Visual Impact	Almost Certain	No Injury	Medium	It is important that our works should have a minimal effect on the local environment. All work areas are to be made good prior to completing the project	Possible	No Injury	Controlled
E12	Nuisance (pests, traffic, waste)	Almost Certain	No Injury	Medium	<ul style="list-style-type: none"> Consider neighbours when conducting noisy activities. Clean mud off roads and access routes Minimise dust/litter 	Possible	No Injury	Controlled

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E13	Fuel & Oil Deliveries	Almost Certain	No Injury	Medium	<ul style="list-style-type: none"> All deliveries must be supervised by a member of CPH staff Spill kits and fire extinguisher to be available 	Possible	No Injury	Controlled
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