

SoE and Periphyton Monitoring Run Guide

Ohau-Waikawa Run 1

STATE OF ENVIRONMENT

Version No:						
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Job Hazard & Task Analysis

The yellow highlighted	d hazards a	ntification – tick all that appl are known hazards at the time	of compilir	dditional ng this do	hazards identified: cument. This does not r	
to assess Hazard	for and po Yes	tentially eliminate or isolate ar Hazard	y hazards Ye:		sample location at <i>every</i> Hazard	visit Yes
Confined space		Suspended loads		Nois	e – plant and equipment	
Difficult entry/exit		Falling objects			munication – means of	
Oxygen deficiency/excess		Working near cranes and crane runways		Rem	note area	
Poisonous fumes/gas		Live rails-gantry cranes		Tem	perature extremes	
Explosive gas		Trip hazards		Red	uced visibility	
Flammable materials		Slippery surfaces		Una	uthorized persons	
Combustible materials		Manual handling		High	pressure water	
Hazardous substances		Sharp materials		Vac	Jum	
Drowning		Line of fire		Air e	emissions – dust, fumes	
Engulfment		Pressurized fluids		Gen	eral waste	
UV Radiation		Pressurized air/gas		Haz	ardous waste	
Electrical – low /high voltage		Traffic / vehicle movements		Hyd	rocarbon / chemical spill	
Multiple electrical feeds		Machinery – mobile plant		Soil	disturbance/erosion	
Working at height		Moving parts		Hab	itat disruption	
Ladders		Chemical reaction (Pyrophoric irc	on)	Ligh	ting	
Elevated work platforms		Transport of hazardous substanc	es 🗌	Wea	ther extremes	
Potential for difficult rescue		Stock/Farm Animals				
The yellow highlight need to SAMPLING	ed PPE are	A Safety Equipment– tick all e known required PPE at the t or the appropriate required PP HARD HAT SAFET GLASSE GOGGLE	ime of com E measure Y WC S / /	piling this	s document. This does n sample location per visit S PROTECTIVE	ot negate the
	AFETY RNESS	SUN BLOCK & VHF RA HAND SANITISER	ADIO	THROW	BAG PERSONAL LOCATOR BEACON	SAMPLE POLE
	1					
			1			

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Known Hazard	Significant		Can it be Eliminated		Can it be Minimised		Method of control
	Yes	No	Yes	No	Yes	No	
Drowning	✓			✓	~		Staff should use a sample pole if access into the river/stream is unsafe. PFD's must be worn by staff. Always carry a throw bag when working around water and have a personal locator beacon on hand. It is always preferable to have someone else with you at all times when working around water [HMP 18]
UV Radiation	✓			~	~		Horizons provide sunscreen and hats. Staff are encouraged to make use of these. [HMP 17]
Engulfment	*			✓	~		Rivers/streams are prone to flash flooding creating the potential for engulfment. Staff must be alert and aware at all times of how the waterways are behaving around them, especially in areas where water is dammed or has structures such as intakes and aquaducts. PFD's must be worn by staff and staff must be trained for working around water. Vehicles must be driven a sensible distance from any river or pond edges. Always carry a throw bag when working around water and have a personal locator beacon on hand. It is always preferable to have someone else with you at all times when working around water [HMP18]
Difficult Entry/Exit	~			~	✓		Entry and exit into waterways poses many risks and should be treated with caution. Sampling must be done from stable level ground. Staff should use a sample pole if access into the river/stream is unsafe. PFD's must be worn by staff and staff must be trained for working around water. [HMP18]
Electrical- Low/High Voltage	✓			*	Ý		Many of the rural sampling sites require traversing across farm paddocks equipped with electric fences that contain stock. If unknown, treat every farm fence as electric and avoid direct contact. Contact the landowner for advise on whether or not the fence is live and discuss alternative routes or options for avoiding the fence if possible.
Potential for Difficult Rescue	~			•	✓		Sampling must always be done from stable level ground. Staff should use a sample pole if access into the river/stream is unsafe. PFD's must be worn by staff and staff must be trained for working around water. Vehicles must be driven a sensible distance from any river or pond edges. Always carry a throw bag when working around water and have a personal locator beacon on hand. It is always preferable to have someone else with you at all times when working around water [HMP18]
Trip Hazards	~			~	~		Prior to sampling, staff must check area is clear of items that pose a risk. Trip Hazards

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Known Hazard	Significant		Can it be Eliminated		Can it be Minimised		Method of control	
	Yes	No	Yes	No	Yes	No		
							should only be moved if safe to do so. Sampling only to commence if the sampler is satisfied that any slip, trip or fall hazards are isolated.	
Slippery Surfaces	~			~	~		Sampling must be done from stable level. Vehicles must be driven a sensible distance from any river or pond edges. [HMP 18]. Staff driving four wheel drive vehicles must have adequate training [HMP 9]	
Machinery- mobile plant	✓			~	~		Staff are to obey all health and safety signage, and be on the lookout for gravel extraction vehicles at the Makahika sites.	
Traffic Vehicle Movements	~			~	~		The designated driver of a vehicle is responsible for ensuring the safety and operational requirements and recommendations are met. All staff working within the road reserve must wear high visibility clothing to AS/NZS 1906.4:2010. This clothing must be fluorescent red orange in colour unless the individual is the site STMS then the garment must be fluorescent lime yellow. [HMP 9] [HMP 16] [HMP 20].	
Stock/Farm Animals	✓			~	~		Although generally docile, farm animals can still be hazardous. The risk should be isolated by finding alternative access routes to the sample location or contacting the owner for assistance. [HMP26]	
Communications- Means of	✓			~	~		Cell phone coverage is not available at all sites. Staff must be capable of communicating via VHF radio in an equipped vehicle. [HMP 24]	
Remote Area	~			✓	~		Most council vehicles are fitted with the E- Road vehicle locator system. Many vehicles are also fitted with a radio operating on the Horizons digital radio network providing communication and tracking coverages across a majority of the region. [HMP 24]	
Temperature/ Weather Extremes	~			~	~		During the duration of a sampling run varying types and degrees of weather may be experienced. All sampling staff are to have access within their HRC vehicle to additional and appropriate clothing. Staff must have access to suitable PPE and spare clothing within their vehicle. [HMP 18]	
Reduced Visibility	~			~	~		If you find you are driving in limited visibility slow your driving speed and turn your fog lights on and watch out for vehicles that aren't using their lights. When working in limited	

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Known Hazard	Signi	ficant		Can it be Can i liminated Minim			Method of control
	Yes	No	Yes	No	Yes No		
							visibility if you cease to able to make out your surrounding environment stop work immediately. If working at night it is advisable to travers the property in daylight first to map out an action plan outlining walking tracks, vehicle tracks, fence lines, stock positions, ponds, waterways, houses, and sheds as well as other significant items of interest. [HMP12]

Site Information

Hilltop Site Name	Easting/Long (NZTM)	Northing/Lat (NZTM)	Comments						
Ohau u/s Makahika Confluence	1799096	5496819	Water Quality Samples SmarTroll,Black disk Chloropyll a Sample and Visual Assessment						
Ohau at Gladstone Reserve	1797434	5495980	Water Quality Samples SmarTroll,Black disk Chloropyll a Sample and Visual Assessment						
Ohau at State Highway Bridge	1789382	5495374	Water Quality Samples SmarTroll,Black disk Chloropyll a Sample and Visual Assessment						
Ohau at Haines Property	1785783	5496186	Water Quality Samples SmarTroll,Black disk Chloropyll a Sample and Visual Assessment						
Kuku Stream at N.Johnstone Farm Bridge	1785330	5495215	Water Quality Samples SmarTroll,Black disk						

Contact details can be found here.



- 0
 - Run 2 Water samples only
- 0 Estuary run

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Equipment Required

Sample Bottles	FIVE(5) sample bottle sets - refer to http://tqm.horizons.govt.nz/Hydrology/SOPs/cd_om_15.4_Appendix						
Sample numbers	FIVE (Water Quality) FOUR (Periphyton)						
Equipment	 SmarTroll (calibrated) – including iPad Bathoscope Pottles (Approx 10) Scrubbing brush, tooth brush, washer bottle, yellow sample bottle lid and ice cream container Sampling pole Black disk, viewer, tape measure, clarity tube Chilly bins and ice-packs Disinfectant equipment for sampling equipment Field sampling books Sampling numbers for Chla and Water samples Disinfectant equipment for sampling equipment Alcohol gel Personal Locator Beacon 4WD Vehicle equipped with VHF Radio Throw Bag 						
Additional Comments/ Instructions	Ohau at Haines Property: Contact the landowner for permission to sample prior to accessing the property. Dylan Smith- Farm Manager 027 208 9927 Toilets: Image: Contact the landowner for permission to access the property.						
	Toilets:At the farm shed						



SITE LOCATION MAP – Ohau at u/s Makahika Confluence



POSSIBLE SITE HAZARDS (this does not negate undertaking a hazard review prior to sampling on the day):

sampling on the ua	y).								
Drowning	Engu	fment	UV Rad	iation	Slippery	surfaces	Trip hazards		
Difficult entry/exit	Remot	e Area	Potential for difficult rescue		Weather/Temperature Extremes		Traffic / Vehicle Movements		
Stock/Farm Animals		rical- voltage			Communication- means of		Reduced Visibility		
REQUIRED PPE ((in accord	lance wit	h above ha	azards –	this does r	ot negate u	indertaking a	а	
hazard review prior	[.] to samp	ling on th	e day and/	or using	additional	PPE if deer	ned necess	ary):	
WORK BOOTS / WADERS	PFD	SUNSCREEN & HAND SANITISER			AL LOCATOR ACON	THROW BAG	VHF RADIO	HI-VIS	
DIRECTIONS:									
 From the Palmerston North office head out along State Highway 57, go through Shannon and continue on towards Levin. Go past the turn off into Levin and turn left onto Tararua Road. There is a big brown road sign opposite this turn off which says Makahika Outdoor Centre. Drive to the end of Tararua Road and turn right onto Gladstone Road Keep driving along this road, you will pass the Gladstone Reserve (you will come back to this later). 									

• Continue past Poads Road, for about 750m before the bridge there is a sharp right turn in to a big gravel area.

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ACCESS: Park in the gravel extraction area if flows are high, or alternatively drive over the bridge and up the hill, find a suitable place to turn around and park on the downhill section before the bridge.





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SITE LOCATION MAP – Ohau at Gladstone Reserve



POSSIBLE SITE HAZARDS (this does not negate undertaking a hazard review prior to sampling on the day):

Drowning	Engulfment	UV Radiation	Slippery surfaces	Trip hazards			
Difficult entry/exit	Remote Area	Potential for difficult rescue	Weather/Temperature Extremes	Traffic / Vehicle Movements			
Communication-	Reduced						
means of	Visibility						

REQUIRED PPE (in accordance with above hazards – this does not negate undertaking a hazard review prior to sampling on the day and/or using additional PPE if deemed necessary):

WORK BOOTS / WADERS	PFD	SUNSCREEN & HAND SANITISER	PERSONAL LOCATOR BEACON	THROW BAG	VHF RADIO	HI-VIS	
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DIRECTIONS:

- From Ohau u/s Makahika Confluence site, continue back down Gladstone Road towards Levin for about 2 minutes until you see Gladstone Reserve to the left.
- Drive into the reserve.
- In summer you will be able to drive right down to the river. In winter there is a gate so you will have to park up near the toilet and walk down.
- Drive/Walk down through the Reserve until you find the Ohau River.
- Find a suitable run to sample.

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SITE LOCATION MAP – Ohau at State Highway Bridge



POSSIBLE SITE HAZARDS (this does not negate undertaking a hazard review prior to sampling on the day):

Drowning		U	UV Radiation		Slippery surfaces	Trip	Trip hazards	
Difficult entry/exit		Potentia	Potential for difficult rescue		Veather/Temperatur Extremes		Traffic / Vehicle Movements	
REQUIRED PPE (in accordance with above hazards – this does not negate undertaking a hazard review prior to sampling on the day and/or using additional PPE if deemed necessary):								
WORK BOOTS / WADERS	PFD	SUNSCREEN & HAND SANITISER	PERSONAL LOCATOR BEACON	THROW BA	AG VHF RADIO	HI-VIS		
DIRECTIONS:								

- From Gladstone Reserve, drive back to SH 57 and turn left, follow the road around to the right towards Wellington.
- Turn Left on to SH 1 towards Wellington, drive through Ohau, then turn left on to Parakawau Road.
- Park close to the river and sample downstream of the bridge.









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SITE LOCATION MAP – Ohau at Haines Property



POSSIBLE SITE HAZARDS (this does not negate undertaking a hazard review prior to									
sampling on the day):									
Drowning			V Radiation	Slippery surfaces		Trip hazards			
Difficult entry/exit	Remote Area	Stock/Farm Animals		Communication- means of		Reduced Visibility			
Potential for difficult rescue	Electrical- low/high voltage	Machinery- mobile plant		Weather/Temperature Extremes		Traffic / Vehicle Movements			
REQUIRED PPE (in accordance with above hazards – this does not negate undertaking a hazard review prior to sampling on the day and/or using additional PPE if deemed necessary):									
WORK BOOTS / P	FD SUNSCREEN & SANITISER		PERSONAL LOCAT	FOR BEACON	THROW BAG	VHF RADIO	HI-VIS		
 DIRECTIONS: From Ohau at SH1 return to SH1 and turn left, continue over the overpass. In the next pasing lane you need to turn right at the end of it. Follow SH1 until you see Kuku Beach Road. Turn right here. Follow Kuku Beach Road for approximately 4 minutes until you reach a small bridge on the right and a red barn in the adjacent paddock. This is 410 Kuku Road (Haines Farm), turn down here. Follow the main driveway and then turn in through one of the gates (there are multiple) 									

- Follow the main driveway and then turn in through one of the gates (there are multiple gates) onto the cattle race which runs adjacent to the driveway. Stop in at the cowshed office to sign the visitor's book then head back to the race.
- Follow the race in the same direction heading towards the stopbank in the distance. Continue on straight down the race to the stopbank. Drive on up the stopbank and park the car at the top.
- Walk down the other side of the stopbank and over the electric fence and through the trees down to the river. Sample here.

ACCESS:

• Contact the landowner for permission to sample prior to accessing the property. Dylan Smith- Farm Manager: 027 208 9927









SITE LOCATION MAP – Kuku at N.Johnston Farm Bridge



POSSIBLE SITE HAZARDS (this does not negate undertaking a hazard review prior to							
sampling on the day):							
Drowning Engulfment		UV Radiation	Slippery surfaces	Trip hazards			
Difficult entrules it	Demote Area	Potential for difficult	Weather/Temperature	Traffic / Vehicle			

	Difficult entry/exit	Remote Area	Potential for difficult	weather/remperature	Traffic / Venicle		
	Difficult effit y/exit	Remote Area	rescue	Extremes	Movements		
	Stock/Farm	Electrical-	Machinery- mobile	Communication-	Reduced Visibility		
	Animals	low/high voltage	plant	means of	Reduced visibility		
	REQUIRED PPE (in accordance with above hazards – this does not negate undertaking a hazard review prior to sampling on the day and/or using additional PPE if deemed necessary):						
		SUNSCREEN					

DIRECTIONS:

- From the Haines Property site, drive back down the driveway to Kuku Beach Road
- Turn right and park on the grass directly by the farm bridge
- Park up off the road and sample the creek that runs under the bridge- this is the Kuku Stream.

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Head back to the office