

SoE and Periphyton Monitoring Run Guide

Oroua Run

(Monthly Sampling)

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Job Hazard & Task Analysis

	Ha		JUD IIAZ					
	hlighted	hazards a	are known hazards	s at the time of c	ompiling t	his docume	nt. This does not	
	assess f	[1			each samp	e location at every	I
Hazard		Yes	Haz	ard	Yes		Hazard	Yes
Confined space	onfined space		Suspended loads			Noise – pla	int and equipment	
Difficult entry/exit		\square	Falling objects			Communic	ation – means of	\square
Oxygen deficiency/excess			Working near cran runways	es and crane		Remote ar	ea	\square
Poisonous fumes	/gas		Live rails-gantry cra	anes		Temperatu	re extremes	\square
Explosive gas			Trip hazards		\boxtimes	Reduced v	isibility	\square
Flammable mater	ials		Slippery surfaces		\boxtimes	Unauthoriz	ed persons	
Combustible mate	erials		Manual handling		\boxtimes	High press	ure water	
Hazardous substa	ances		Sharp materials			Vacuum		
Drowning		\square	Line of fire			Air emissio	ns – dust, fumes	
Engulfment		\square	Pressurized fluids			General wa	aste	
UV Radiation		\square	Pressurized air/gas	5		Hazardous	waste	
Electrical – low /h voltage	igh	\boxtimes	Traffic / vehicle movements		\boxtimes	Hydrocarbo	Hydrocarbon / chemical spill	
Multiple electrical	feeds		Machinery – mobile plant			Soil disturbance/erosion		
Working at height			Moving parts			Habitat disruption		
Ladders			Chemical reaction (Pyrophoric iron)			Lighting	Lighting	
Elevated work pla	tforms		Transport of hazardous substances			Weather extremes		
Potential for diffice rescue	ult	\square	Stock/Farm Animals		\boxtimes			
Tescue		L						
The vellow h	Requi i	red PPE 8 ad PPE are	Safety Equipme	ent– tick all that PPE at the time	t apply, w of compili	rite additio	nal PPE required	: not negate the
							ole location per vis	
SAMPLING GLOVES	1	EAR ECTION	HARD HAT	SAFETY GLASSES / GOGGLES		BOOTS DERS	PROTECTIVE GLOVES	PERSONAL FLOATATION DEVICE (PFD)
							N	
			•					
HI VIZ	IZ SAFETY HARNESS		SUN BLOCK & VHF RADIO HAND SANITISER) THROW BAG		PERSONAL LOCATOR BEACON	
J İN								

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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	V			*	V		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	*			✓	 Image: A start of the start of		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	~			 Image: A start of the start of	~		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]
Potential for Difficult Rescue	~			Ý	~		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]

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Known Hazard	Significant		Can it be Eliminated		Can it be Minimised		Method of control
	Yes	No	Yes No		Yes No		
Trip Hazards	~			~	~		Prior to sampling, staff must check area is clear of items that pose a risk. Trip Hazards 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	√			√	v		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]
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].
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]



Known Hazard	Significant		Can it be Eliminated		Can it be Minimised		Method of control			
	Yes	No	Yes No		Yes	No				
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 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]			

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Site Map



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Site Information

Hilltop Site Name	Easting/Long (NZTM)	Northing/Lat (NZTM)	Comments
Oroua at Apiti	1849982	5575012	Chloropyll a Sample, Visual Assessment, WQ samples, Aquatroll and Black disk.
Kimbolton STP at oxpond waste	1837985	5561648	WQ samples ONLY
Oroua Trib at U/S Kimbolton STP	1837985	5561648	WQ samples, Aquatroll, Black disk (clarity tube) and gauging
Oroua tributary at d/s Kimbolton STP	1837985	5561648	WQ samples, Aquatroll and Black disk (clarity tube)
Oroua at Almadale Slackline	1826381	5549635	Chloropyll a Sample, Visual Assessment, WQ samples, Aquatroll, Black disk and gauging.
Kiwitea at Kimbolton Road	1821002	5545499	WQ samples, Aquatroll, Black disk and guaging
Feilding STP at Secondary oxpond waste	1816748	5541312	WQ sample ONLY
Oroua at u/s Feilding STP	1816594	5540022	Chloropyll a Sample, Visual Assessment, WQ samples, Aquatroll and Black disk.
Oroua at d/s Feilding STP	1816085	5539898	Chloropyll a Sample, Visual Assessment, WQ samples, Aquatroll and Black disk.
Oroua at Awahuri Bridge	1814388	5538558	Chloropyll a Sample, Visual Assessment, WQ samples, Aquatroll and Black disk.

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Equipment Required

Sample numbers	10 (Water Quality) 5 (Periphyton)
Equipment	 Handheld multi-parameter instrument (calibrated) – including iPad/screen WITH CADDIS INSTALLED Black disc, viewer, tape measure, clarity tube Bathoscope Pottles (Approx 10) Scrubbing brush, tooth brush washer bottle, yellow sample bottle lid and ice cream container Sampling pole Chilly bins and ice-packs Bags for isolating effluent samples Disinfectant equipment for sampling equipment Field sampling books Sampling ID labels (created using Hilltop Sampler) Gloves for wastewater and effluent samples Alcohol gel Personal Locator Beacon 4WD Vehicle equipped with VHF Radio Throw Bag
Additional Comments	 Kimbolton STP at oxpond pond – discharges only a few days a month. You will be able to hear the round building making noise if it is discharging. Oroua Trib at U/S & D/S Kimbolton STP sites – is a very small narrow stream, use clarity tube and do a visual gauging here. Feilding STP at Secondary oxpond waste - sign in at the office building before sampling the waste and sign out after sampling the Oroua at u/s Feilding STP site.



SITE LOCATION MAP – Oroua at Apiti



POSSIBLE SITE HAZARDS (this does not negate undertaking a hazard review prior to sampling on the day):								
	wning	U٧	Radiation		Slippe	ery surfaces	Trip h	azards
Difficult entry/exit		Potential for difficult rescue		Machinery- mobile plant		Traffic / Vehicle Movements		
Weather/Temperature Extremes								
	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		W BAG	VHF RADIO	HI-VIS	
DIRECTIONS:								
From the Palmerston North office travel to Feilding and then head north east out of								

Feilding along State highway 54 (Kimbolton Road).

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- Continue on this road for approximately 25 kilometres and you will come to Kimbolton. Continue through Kimbolton for approximately a further 1.5 kilometres until you get to the intersection by the lookout to Apiti- turn right here onto Apiti Road.
- Stay on Apiti Road which will eventually turn into Oroua-Valley Road and drive through Apiti. The road name will change from Oroua-Valley Road to Main South Road after you drive through Apiti. Continue on Main South Road for approximately 7 kilometres.
- You will head down into the Apiti Gorge. At the bottom of this there will be the bridge across the Oroua River. Just before you reach the bridge, on the left hand side of the road there is a hard stand, Park up here.

ACCESS:

- Just past this is a track which leads to the river, be careful of the blackberry growing on the sides of this track.
- Walk down this track to the river and sample here, approximately 30 metres downstream of the bridge. Be aware that there is a small tributary that comes into the river on the true right hand side of the river. Sampling must be done upstream of this if at all possible.



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View looking upstream to the bridge at the end of the track



View looking downstream at the end of the track

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SITE LOCATION MAP – Kimbolton STP at oxpond waste, Oroua Trib at u/s Kimbolton STP, Oroua Trib at d/s Kimbolton STP



POSSIBLE SITE HAZARDS (this does not negate undertaking a hazard review prior to sampling on the day):						
Drowning	UV Radiation	Slippery surfaces	Trip hazards			
Difficult entry/exit	Potential for difficult rescue	Machinery- mobile plant	Traffic / Vehicle Movements			
Weather/Temperature Extremes						

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WORK BOOTS / WADERS	PFD	SUNSCREEN & HAND SANITISER	PERSONAL LOCATOR BEACON	THROW BAG	VHF RADIO	deemed ned ні-vis	
DIRECTIO	NS:			I			
 Return 	irn the way y	ou came dov	wn Manawat	u Scenic Ro	ute and back	through Ap	iti.
 Trav 	el for about	19km until yo	ou reach Lon	idon Fords R	oad, turn left	t down here.	
 Afte 	r about 500m	n turn right or	nto Terrace I	Road. Contin	ue down the	hill (very na	rrow road,
		s, drive caref	• /	to the flats (3	.3km) and e	nter the gate	e just
	ond hay shee	and on the	bend				
ACCESS:							
and sam • Sam the rour there	drive to the oples. Inple the dischveranda of the dischveranda of the dischveranda of the dischveranda of the dischverande is no samp	ark just throu discharge an harge first. Th he building. T hilding making he to be take te is approx.	d then park on the discharge here is a tap g noise, if all n.	on that side o sample is d , if the plant is quiet then	of the stream own the end is dischargin the plant isr	for the U/S of the padde g you will he i't dischargir	and D/S ock under ear the ng and
imm the s The downs	ediately dow stream is ver tream site is	nstream of the shallow. A approx. 10 approx. 10 approx. 10 approx. 10 m he stream ar	ne ford). San gauging is ro downstrean	nple here, yc equired here n of discharg	u will need to , most likely a e. This is on	o use a clari a visual gau the other si	ty tube as ging.
	Dischar site						



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Left photo: U/S site looking D/S towards ford. Right photo: D/S site looking U/S towards ford

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SITE LOCATION MAP – Oroua at Almadale



POSSIBLE SITE HAZARDS (this does not negate undertaking a hazard review prior to					
sampling on the day):					
Drowning	UV Radiation	Slippery surfaces	Trip hazards		
Difficult entry/exit	Potential for difficult rescue	Machinery- mobile plant	Traffic / Vehicle Movements		
Weather/Temperature Extremes					
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):					

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

- Travel back the way you came along Terrace Road, turn left onto Londons Ford Road and left again onto Apiti Road. At the top of Apiti Road turn left onto Rangiwahia Road and travel back through Kimbolton.
- Travel through Cheltenham and stay on Kimbolton Road for about 3km. Turn left onto Almadale Road.
- Drive down Almadale Road for about 2mins, down the hill and then turn right into the reserve.
- Drive through the reserve to the Horizons Water Safety Sign and park here.

ACCESS:

- Enter the river via one of the pathways, this can be slippery.
- Sample here. Gauge where appropriate along the reach, if it isn't possible to gauge no stress the hydro team gauge this site regularly separate to the SOE.

ADDITIONAL INFO:

• This is a hydro site, if possible do a hydro inspection, check ESG and put the Aquatroll in next to the Exo Sonde for the check data.



Entrance to Almadale Reserve

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Sample site looking upstream towards hydro site



SITE LOCATION MAP – Kiwitea at Kimbolton Road



POSSIBLE SITE HAZARDS (this does not negate undertaking a hazard review prior to sampling on the day):								
Drov	wning	U١	Radiation		Slippe	ery surfaces	Trip ha	azards
Difficult entry/exit Potential for difficult rescue		Machi	nery- mobile plant		Vehicle ments			
	Weather/Temperature Extremes							
REQUIRE	D PPE (in ac	cordance wi	th above haz	ards -	– this d	loes not nega	ate undertak	ing a
hazard revi	ew prior to sa	ampling on tl	ne day and/c	r usin	g addit	ional PPE if	deemed nec	essary):
WORK BOOTS / WADERS	PFD	SUNSCREEN & HAND SANITISER	PERSONAL LOCATOR BEACON	THRC	W BAG	VHF RADIO	HI-VIS	

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DIRECTIONS:

- Go back the way you came out of Almadale Road and turn left onto Kimbolton Road.
- Stay on Kimbolton Road for about 6km as you come into Feilding.
- As you cross the Kiwitea Bridge coming into Feilding, there is a little reserve immediately on your left, turn into this reserve and park up in the parking area.

ACCESS:

• Walk down to the river and find somewhere suitable for a gauging and WQ samples downstream of the bridge.





View of site looking upstream towards the bridge

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SITE LOCATION MAP – Feilding STP at secondary oxpond waste, Oroua at U/S Feilding STP & Oroua at D/S Feilding STP



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OVERALL SITE MAP – Feilding STP at secondary oxpond waste, Oroua at U/S Feilding STP & Oroua at D/S Feilding STP



Orange line is the track to take to drive from STP to U/S site while still signed in at STP. Blue line is the road to take to get to D/S site after signing out at STP.

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Feilding STP at secondary oxpond waste

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

sumpling on the day/.						
Drowning	UV Radiation	Slippery surfaces	Trip hazards			
Difficult optry/oxit	Potential for difficult rescue	Machinery- mobile	Traffic / Vehicle			
Difficult entry/exit	Potential for difficult rescue	plant	Movements			
Weather/Temperature						
Extremes						
PEOLIBED PDE (in accordance with above bazards — this does not negate undertaking a						

O 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):

BOOTS / PFD C LOCATOR THROW BAG VHF RADIO HI-VIS WADERS SANITISER BEACON BEACON
--

DIRECTIONS:

- Turn left out of the reserve and continue down Kimbolton Road towards Feilding.
- At the roundabout turn left onto SH54/Aorangi Street.
- After a couple of minutes turn right onto South Street and then left onto Kawakawa Road
- Stay on Kawakawa Road as you head out of Feilding and turn left into the big driveway with signs for the Recycle Centre and Waste Transfer Station.
- Stay in the far left lane and drive past the weigh station, through the black metal gates until you reach the Wastewater Treatment Plant on the right.

ACCESS:

- The entry and exit gates for the plant are one-way only, please go in and out the correct gates.
- Sign in at the office. Wear high-vis at all times.
- Drive towards the ponds after checking in and sample at the point where discharge enters the outfall pipe just after the UV treatment.



Turn into here to go past the Recycle Centre and Waste Transfer Station to the STP.

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The above right turn is the turn into the STP.



Feilding STP map. Make sure you go in and out the correct gates.





Park up next to the sample point. Note this picture is old and there is more buildings and structures in the area.



Post UV, sample in the flow before it drops over the fall.

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Oroua at U/S Feilding STP

POS	SSIBLE SITE	E HAZARDS	5 (this does I	not ne	gate u	ndertaking a	hazard revie	ew prior to
sampling or	n the day):							
Drowning		UV Radiation			Slippery surfaces		Trip hazards	
Difficult entry/exit		Potential for difficult rescue		Machinery- mobile plant		Traffic / Vehicle Movements		
	emperature emes							
REQUIRE	D PPE (in ac	cordance wi	th above haz	zards ·	– this d	loes not neg	ate undertak	ing 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		
DIRECTIONS:								
 Drive out the exit gate of the STP, and take an immediate right then another to head along the stock bank track. 								
 At the T-intersection, take a left down onto the flat, follow this track through the gate and 								
carry on until just past the quarry.								
 Take care driving past the quarry as there are large trucks driving in and out the area. 								

ACCESS:

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- Just past the quarry is an old path to the left down to the river with some large concrete • blocks stopping full driving access down to the river.
- Park up here off the main track and walk down to the river to sample. •



View from the parking spot looking down to the river.

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Left photo is looking downstream. Right photo is looking upstream.

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SITE LOCATION MAP – Oroua at D/S Feilding STP

POSSIBLE SITE HAZARDS (this does not negate undertaking a hazard review prior to

sampling on the day):			
Drowning	UV Radiation	Slippery surfaces	Trip hazards
Difficult entry/exit	Potential for difficult rescue	Machinery- mobile plant	Traffic / Vehicle Movements
Weather/Temperature Extremes			

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

- Return back to the STP and sign out. Reminder to drive in and out the correct gates.
- Drive back out to the main road and turn left onto Kawakawa Road.
- Continue until the end of the road and take a left onto Awahuri Feilding Road.
- Drive for 1km and take a left onto Boness Road.
- Drive to the end of the road and take the track down to the river.

ACCESS:

- Park on the gravel bed and sample where appropriate.
- You may need to park back further if the river is up so take care.



Left photo is looking downstream. Right photo is looking upstream.



SITE LOCATION MAP – Oroua at Awahuri Bridge



POSSIBLE	SITE HAZ	ARDS (this o	does not neg	ate ur	ndertak	ing a hazard	review prior	to
sampling or	n the day):							
Drov	Drowning		UV Radiation		Slippery surfaces		Trip hazards	
Difficult entry/exit		Potential for difficult rescue		Machinery- mobile plant		Traffic / Vehicle Movements		
	emperature emes							
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	THRO	W BAG	VHF RADIO	HI-VIS	

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DIRECTIONS:

- Head back towards Awahuri-Feilding Road and turn left.
- Travel for a couple of minutes down Awahuri-Feilding Rd and turn left when you get to the T-intersection with SH3.
- After about a minute of travel, before you cross the bridge going over the Oroua River, pull into the track leading to the river and park in front of the barrier well off the road.

ACCESS:

• Walk down to the river following the track and find a suitable place to sample upstream of the bridge





View looking downstream towards the bridge





View looking upstream at site

Return to office.