

FSC RISK ASSESSMENT PRO FORMA

SITE LOCATION: Soils Lab Chemicals	Date of initial assessment	30/04/07	Date revised	28/05/09
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ACTIVITY / SITUATION Soil and Water Testing

HAZARDS IDENTIFIED Grouped by Outcomes	PERSONS AT RISK FROM EXPOSURE TO HAZARD					WITHOUT CONTROLS IN PLACE	WITH CONTROLS										WITH CONTROLS IN PLACE	
						RISK RATING	WORST CASE OUTCOME					LIKELIHOOD / PROBABILITY					RISK RATING	
							1	2	3	4	5	1	2	3	4	5		
N O.	Employee	Students	Visiting staff	Public	ALL	Worst Case Outcome X Likelihood / Probability	Inconvenience	Minor Injury	Injury / Illness	Major Injury	Fatality / Multiple	Unlikely	Rarely	Infrequently	Sometimes	Often	(A x B)	
1	Dissolved Oxygen kit Reagent B (sodium hydroxide, potassium iodide, sodium azide)	X	X	X							X	X						5
2	Barium Sulphate	X	X	X					X				X					6
3	Dissolved Oxygen kit reagent A (Manganese(II) sulphate monohydrate)	X	X	X					X			X						3
4	Dissolved Oxygen kit reagent C (Sulphuric acid)	X	X	X					X			X						3
5	Nutrafin Phosphate Testing Kit reagent 1 (sulphuric acid + Ammonium molybdate) A7841	X	X	X					X			X						3
6	Nutrafin Phosphate Testing kit reagent 2 (Antimony potassium tartrate) A7842	X	X	X					X			X						3
7	pH soil testing tablets	X	X	X				X				X						2
8	Sulphur	X	X	X				X				X						2
9	Nutrofin Phosphate kit reagent 3 (phosphate glycol) A7843	X	X	X				X				X						2
10	Nutrofin Nitrate kit reagent 1 (A-7846)	X	X	X						X		X						4

11	Nutrofin Nitrate kit reagent 2 (A-7847)	X	X	X			8				X		X				4
12	Nutrofin Nitrate Kit reagent 3 (A- 7848)	X	X	X			8				X		X				4
13	Nitrate Testing Strips	X	X	X			1	X					X				1
14	Storage Solution (HI 70300) for pH and ORP electrodes.	X	X	X			1	X					X				1
15	Decon neutracon (neutral cleaning solution)	X	X	X			1	X					X				1
16	Decon 90 (alkali cleaning solution)	X	X	X			1	X					X				1
17	Buffer Solution pH 7.01	X	X	X			1	X					X				1
18	Buffer Solution pH 4.01	X	X	X			4	X					X				1
19	Conductivity Solution 1413 (HI 70031) 20ml	X	X	X			4	x					X				1
20	Electrode Rinse Solution (HI 70000) 20ml	X	X	X			4	X					X				1
21	Methanol (75% in distilled water)	X	X	X			8				X		X				4
22	Dissolved Oxygen Reagents	X	X	X			6			X			X				3
23	Water testing tablets	X	X	X			1	X					X				1

No	Risk Rating	THESE CONTROL MEASURES ARE TO BE IN PLACE. FSC TUTOR TO ENSURE ACCOMPANYING STAFF AND ADULTS ARE CLEARLY BRIEFED, BEFORE THE START OF THE ACTIVITY REGARDING THEIR SUPERVISORY ROLE + ACTION TO TAKE IF ANY PROBLEMS OCCUR
1	5	Dissolved oxygen kit reagent B (Sodium hydroxide, Potassium iodide, Sodium azide) <ul style="list-style-type: none"> • Corrosive, harmful by skin contact, may cause serious eye damage. Irritant may irritate lungs or eyes. V. toxic, ingestion or inhalation may be fatal, can be absorbed through the skin • For tutor use only • Do not flush down the sink • First aid: Irrigate eyes. Wash skin with soap
2	6	Barium Sulphate <ul style="list-style-type: none"> • May irritate eyes or act as a respiratory agent • Wash hands after use • First aid: Irrigate, remove from exposure wash off thoroughly • Store in manufacturer's original box
3	3	Dissolved Oxygen Kit Reagent A (Manganese (II) Sulphate Monohydrate) <ul style="list-style-type: none"> • Harmful if inhaled • For tutor use only • First aid: Irrigate eyes, wash off skin
4	3	Dissolved Oxygen kit reagent C (Sulphuric acid) <ul style="list-style-type: none"> • Corrosive. Can cause serious burns to mouth, eyes and skin. Harmful by ingestion and skin contact • For tutor use only • First aid: Irrigate eyes. Wash off skin
5	3	Nutrafin Phosphate testing kit reagent 1 (sulphuric acid + Ammonium molybdate) A7841 <ul style="list-style-type: none"> • Irritant: irritating to eyes and skin. Can cause serious burns to eyes, mouth and skin. • Wash hands after use • First aid: flush area with water. Seek immediate medical attention
6	3	Nutrafin Phosphate testing kit reagent 2 (Antimony potassium tartrate) <ul style="list-style-type: none"> • Harmful: may cause irritation and pain to eyes, skin and mouth • Wash hands after use • First aid: flush area with water. Seek immediate medical attention

7	2	<p>pH soil testing kit</p> <ul style="list-style-type: none"> • Do not flush down the sink • Wash hands after use
8	2	<p>Sulphur</p> <ul style="list-style-type: none"> • Irritating to eyes, skin and respiratory system • For tutor use only • Wear safety glasses, wash hands after use • Do not flush down the sink • First aid: Irrigate. Call for immediate medical help if swallowed • Store in manufacturers original box
9	2	<p>Nutrofin Phosphate testing kit reagent 3 (Propylene glycol)</p> <ul style="list-style-type: none"> • Prolonged or repeated contact may cause irritation to skin and eyes • Wash hands after use • First aid: flush area with water. Seek immediate medical attention
10	4	<p>Nutrofin Nitrate Kit Reagent 1 (A-7846)</p> <ul style="list-style-type: none"> • Irritating to eyes, skin and respiratory system • For Tutor use only • Wear safety glasses. Wash hands after use • Do not flush down the sink • First aid: Irrigate. Call for immediate medical help if swallowed • Store in manufacturers original box
11	4	<p>Nutrofin Nitrate Kit Reagent 2 (A7847)</p> <ul style="list-style-type: none"> • Irritating to eyes, skin and respiratory system • For Tutor use only • Wear safety glasses. Wash hands after use • Do not flush down the sink • First aid: Irrigate. Call for immediate medical help if swallowed • Store in manufacturers original box

12	4	<p>Nutrofin Nitrate Kit Reagent 3 (A-7848)</p> <ul style="list-style-type: none"> • Irritating to eyes, skin and respiratory system • For Tutor use only • Wear safety glasses. Wash hands after use • Do not flush down the sink • First aid: Irrigate. Call for immediate medical help if swallowed • Store in manufacturers original box
13	1	<p>Nitrate Testing Strips</p> <ul style="list-style-type: none"> • Non-hazardous • Store in manufacturers original box
14	1	<p>Storage Solution (HI 70300) for pH and ORP electrodes</p> <ul style="list-style-type: none"> • Non-hazardous • First aid: irrigate • Store in manufacturers original box
15	1	<p>Decon neutracon (neutral cleaning solution)</p> <ul style="list-style-type: none"> • For tutor use only • Avoid contact with skin and eyes • First aid: flush area with water, seek medical help if there is persistent irritation
16	1	<p>Decon 90 (alkali cleaning solution)</p> <ul style="list-style-type: none"> • For tutor use only • Avoid contact with skin and eyes • First aid: flush area with water
17	1	<p>Buffer solution pH 7.01</p> <ul style="list-style-type: none"> • For tutor use only • Non-hazardous • First aid: Wash skin with water and soap, irrigate eyes/mouth with water

18	1	<p>Buffer solution pH 4.01</p> <ul style="list-style-type: none"> • For tutor use only • Non-hazardous • First aid: Wash skin with water and soap, irrigate eyes/mouth with water
19	1	<p>Conductivity Solution 1413 (HI 70031) 20ml</p> <ul style="list-style-type: none"> • For tutor use only • Non-hazardous • First aid: Wash skin with water and soap, irrigate eyes/mouth with water • Store in manufacturers original box
20	1	<p>Electrode Rinse Solution (HI 70000) 20 ml</p> <ul style="list-style-type: none"> • For tutor use only • Non-hazardous • First aid: Wash skin with water and soap, irrigate eyes/mouth with water • Store in manufacturers original box
21	4	<p>Methanol (75 % in distilled water)</p> <ul style="list-style-type: none"> • Highly flammable and toxic • Irreversible effects through inhalation, in contact with skin and if swallowed. • Keep container tightly closed. • Keep container away from sources of ignition • Wear suitable protective clothing (goggles) and gloves. • In case of accident or feeling unwell seek medical attention immediately.
22	3	<p>Dissolved Oxygen Reagent (2 & 3)</p> <ul style="list-style-type: none"> • Corrosive, causes severe burns • Avoid contact with skins and eyes • First aid: rinse immediately with plenty of water
23	1	<p>Water Testing Tablets</p> <ul style="list-style-type: none"> • Not to be taken • Keep away from children

Assessment carried out by: Maryanne Wills and Gemma Langworthy