

ENVS3439

Geomorphic Analysis of Rivers and Wetlands for Conservation and Management

Session 3, Special circumstance 2020

Department of Earth and Environmental Sciences

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Disclaimer

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Notice

As part of Phase 3 of our return to campus plan, most units will now run tutorials, seminars and ot her small group learning activities on campus for the second half-year, while keeping an online ver sion available for those students unable to return or those who choose to continue their studies onli ne.

To check the availability of face-to-face and onlin e activities for your unit, please go to timetable viewer. To check detailed information on unit asses sments visit your unit's iLearn space or consult your unit convenor.

General Information

Unit convenor and teaching staff

Unit convenor

Professor Kirstie Fryirs

kirstie.fryirs@mq.edu.au

Contact via iLearn email and discussion board, or direct email

Lecturer

Dr Tim Ralph

tim.ralph@mq.edu.au

Contact via iLearn email and discussion board, or direct email

Credit points

10

Prerequisites

130cp at 1000 level or above including ENVE266 or ENVS266 or ENVS2266 or GEOS266 or ENVS2237

Corequisites

Co-badged status

Unit description

This unit is offered as an intensive, block-mode unit in February every year. It is offered at both advanced undergraduate level and as a professional development course. Pre-course private study and assessment is followed by four days on-campus focussed on developing knowledge for the geomorphic analysis of rivers. Topics include interactions of river forms and processes, assessment of river behaviour and change, river evolution, impacts of human disturbance to rivers, and sediment budgets. Students then apply their skills and knowledge to geomorphic analysis of rivers in a real-world setting during a 4-day off-campus fieldtrip, as well as explore pressing challenges for their conservation and management. This is followed by 4 days on-campus focussed on principles and strategies for river and wetland conservation, management and rehabilitation within an Australian context. Graduates are employed in a range of local, state and federal agencies, catchment management authorities, consultancies, and industry. For further information about the professional development option, please contact the unit convenor.

Important Academic Dates

Information about important academic dates including deadlines for withdrawing from units are available at https://www.mq.edu.au/study/calendar-of-dates

Learning Outcomes

On successful completion of this unit, you will be able to:

ULO1: Apply your knowledge and skills to the geomorphic characterisation and interpretation of rivers

ULO2: Evaluate geomorphic impacts of human disturbance and modification of rivers.

ULO3: Identify and utilise field techniques for the measurement, analysis and interpretation of river morphology, behaviour and evolution.

ULO4: Develop an understanding of the pressing challenges faced in river and wetland conservation and management in Australia.

ULO5: Apply geomorphic river science to the solution of river conservation, management and rehabilitation issues.

ULO6: Communicate scientific information and concepts through oral, visual and written formats

Assessment Tasks

Name	Weighting	Hurdle	Due
Assignment 1	20%	No	Monday 1/2/21 in-class based on pre-course work
Assignment 2	30%	No	Saturday 6/2/21 on fieldtrip by 9pm to TurnItIn
Assignment 3	20%	No	Wednesday 10/2/21 peer-assessed in-class
Assignment 4	30%	No	Friday 12/2/21 by 12 noon to TurnItIn

Assignment 1

Assessment Type 1: Portfolio

Indicative Time on Task 2: 6 hours

Due: Monday 1/2/21 in-class based on pre-course work

Weighting: 20%

250 word summaries of each of pre-unit Podcasts and readings

On successful completion you will be able to:

- Apply your knowledge and skills to the geomorphic characterisation and interpretation of rivers
- Evaluate geomorphic impacts of human disturbance and modification of rivers.
- · Communicate scientific information and concepts through oral, visual and written formats

Assignment 2

Assessment Type 1: Report Indicative Time on Task 2: 9 hours

Due: Saturday 6/2/21 on fieldtrip by 9pm to TurnItIn

Weighting: 30%

River modelling practical exercise

On successful completion you will be able to:

- Apply your knowledge and skills to the geomorphic characterisation and interpretation of rivers
- Evaluate geomorphic impacts of human disturbance and modification of rivers.
- Identify and utilise field techniques for the measurement, analysis and interpretation of river morphology, behaviour and evolution.
- · Communicate scientific information and concepts through oral, visual and written formats

Assignment 3

Assessment Type 1: Debate Indicative Time on Task 2: 6 hours

Due: Wednesday 10/2/21 peer-assessed in-class

Weighting: 20%

Leading and participating in a flipped classroom discussion or activity

On successful completion you will be able to:

- Identify and utilise field techniques for the measurement, analysis and interpretation of river morphology, behaviour and evolution.
- Develop an understanding of the pressing challenges faced in river and wetland conservation and management in Australia.
- · Communicate scientific information and concepts through oral, visual and written formats

Assignment 4

Assessment Type 1: Report Indicative Time on Task 2: 9 hours

Due: Friday 12/2/21 by 12 noon to TurnItIn

Weighting: 30%

River or wetland management design report

On successful completion you will be able to:

- Apply your knowledge and skills to the geomorphic characterisation and interpretation of rivers
- Evaluate geomorphic impacts of human disturbance and modification of rivers.
- Identify and utilise field techniques for the measurement, analysis and interpretation of river morphology, behaviour and evolution.
- Develop an understanding of the pressing challenges faced in river and wetland conservation and management in Australia.
- Apply geomorphic river science to the solution of river conservation, management and rehabilitation issues.
- · Communicate scientific information and concepts through oral, visual and written formats
- ¹ If you need help with your assignment, please contact:
 - the academic teaching staff in your unit for guidance in understanding or completing this type of assessment
 - · the Writing Centre for academic skills support.

Delivery and Resources

INTENSIVE, BLOCK MODE STRUCTURE

This unit is a block mode, intensive unit meaning that the unit will run for 12 days inclusive, 9-5pm each day. Attendance is required for all 12 days of this unit. Be prepared to work hard and eat, breath and sleep rivers for 12 days straight! This unit is designed to assist learning by encouraging your active participation in all activities.

TEXTBOOK AND COMPUTER RESOURCES

There is a textbook for this unit that you should purchase well in advance as you will need it for pre-course preparation and during all 12 days of the unit (see below for further details).

You will need your own personal laptop for each day of this course and wi-fi on the fieldtrip.

PRE-COURSE WORK AND ASSIGNMENT 1

Before the course starts, students are required to complete pre-course work ready for Assignment 1. The pre-course preparation involves listening to 6 x short webinars and undertaking reading from the textbook. These webinars provide the content necessary to get you 'up to speed' and engaged in the key areas of geomorphic analysis of rivers so you are prepared to tackle the course. If you are new to fluvial geomorphology you should supplement them by reading, especially from the textbook. If you are not new to fluvial geomorphology these will be a refresher, but you should still supplement them by reading, especially from the textbook.

² Indicative time-on-task is an estimate of the time required for completion of the assessment task and is subject to individual variation

Assignment 1 will comprise a series of pop-quizzes and other in-class activities and be conducted on the morning of Day 1 of the course. It will test your knowledge from the pre-course work.

DAYS 1-4 - ON-CAMPUS - GEOMORPHIC ANALYSIS OF RIVERS

Days 1-4 of the unit are based on-campus at Macquarie University. This part of the course focusses on the geomorphic analysis of rivers. A mix of interactive activities comprising short information sessions, practical exercises and other activities are undertaken. This is not your standard lecture and practical structure! All the materials are scaffolded and you will be working on building Assignment 2 during these 4 days.

Further information about these Days will be available on the iLearn site and at the COVID-19 section below.

DAYS 5-7 - FIELDTRIP

There is a compulsory fieldtrip for all students, to the Wollombi Valley and Hunter River. We will be undertaking fieldwork activities including site assessments and mapping, surveying, sediment analysis etc. You will be using this information to complete Assignment 2 which is due in the evening of Day 2 of the fieldtrip. On the fieldtrip we will also start preparing and gathering field data for Assignments 3 and 4.

Further information about the fieldtrip will be available on the iLearn site and at the COVID-19 section below.

DAY 8 - DAY OFF

This is a day off given that this year's field trip has been reduced from 4 days to 3.

DAYS 9-12 - ON-CAMPUS - RIVER CONSERVATION AND MANAGEMENT

Days 9-12 of the unit are based on-campus at Macquarie University. This part of the course focusses on the river management practice in an Australian context. The skills you learn in this part of the unit are best practice in the workplace. A mix of interactive activities comprising short information sessions, practical exercises, a role play and other activities are undertaken. This is not your standard lecture and practical structure! All the materials are scaffolded and you will be working on building Assignment 4 during these 4 days. Assignment 3 is a role play that will be peer-assessed.

Further information about these Days will be available on the iLearn site and at the COVID-19 section below.

TEXTBOOK

The textbook for this unit is:

Fryirs, K.A. and Brierley, G.J. 2013. *Geomorphic Analysis of River Systems: An approach to Reading the Landscape*. John Wiley and Sons, Chichester, 345pp.

You can purchase a paperback copy of the book for ~\$70 or an e-book version for ~\$83 at Booktopia at:

https://www.booktopia.com.au/geomorphic-analysis-of-river-systems-kirstie-a-fryirs/book/978140 5192743.html

OTHER READING

You will never be discouraged from reading widely and including the most up-to-date science in you work. An extensive reading list is provided for this unit via the Library in Leganto. You are encouraged to use your database searching skills as well to source relevant information on geomorphology and river management.

ASSESSMENTS

There are four assessments overall with percentage weightings as described above.

Unit Schedule

DAY	Activity
Pre-course	Listen to webinars and do pre-course reading from textbook Arrange work groups, fieldtrip travel (cars), book accommodation
Day 1 - morning	Meet and greet Getting up to speed - interactive activities ASSIGNMENT 1 conducted in-class
Day 1 - afternoon	Learning about river character, behaviour and change - mini-lectures and practical exercises
Day 2 - morning	Building a river evolution diagram - mini-lectures and practical exercises
Day 2 - afternoon	Building a river evolution diagram - short information sessions and practical exercises
Day 3 - morning	Building a river evolution diagram - short information sessions and practical exercises
Day 3 - afternoon	Putting this all together for Assignment 2 - what's required Study time
Day 4 - morning	A taste of River Styles
Day 4 - afternoon	Fieldtrip preparation Study time
Day 5 -	Fieldtrip
Day 6 -	Fieldtrip ASSIGNMENT 2 due in evening
Day 7 -	Fieldtrip
Day 8 -	DAY OFF
Day 9 - morning	River management in Australia - the process, river condition, river recovery - mini-lectures and practical exercises

Day 9 - afternoon	River management in Australia - the process and rehabilitation design mini-lectures and practical exercises
Day 10 - morning	River management in Australia - Assignment 3 river rehabilitation plan, processing data
Day 10 - afternoon	What's expected for Assignment 4 Study time
Day 11 - morning	Preparing your role play! Assignment 3.
Day 11 - afternoon	ASSIGNMENT 3 - Undertaking your role play!
Day 12 - morning	Study time to complete Assignment 4. ASSIGNMENT 4 due
Day 12 - afternoon	Panel discussion on river management in Australia and how to get a job in the industry

Policies and Procedures

Macquarie University policies and procedures are accessible from Policy Central (https://staff.m.q.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central). Students should be aware of the following policies in particular with regard to Learning and Teaching:

- Academic Appeals Policy
- Academic Integrity Policy
- Academic Progression Policy
- Assessment Policy
- · Fitness to Practice Procedure
- Grade Appeal Policy
- Complaint Management Procedure for Students and Members of the Public
- Special Consideration Policy (Note: The Special Consideration Policy is effective from 4

 December 2017 and replaces the Disruption to Studies Policy.)

Students seeking more policy resources can visit the <u>Student Policy Gateway</u> (https://students.m <u>q.edu.au/support/study/student-policy-gateway</u>). It is your one-stop-shop for the key policies you need to know about throughout your undergraduate student journey.

If you would like to see all the policies relevant to Learning and Teaching visit Policy Central (http

s://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central).

Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: https://students.mq.edu.au/study/getting-started/student-conduct

Results

Results published on platform other than <u>eStudent</u>, (eg. iLearn, Coursera etc.) or released directly by your Unit Convenor, are not confirmed as they are subject to final approval by the University. Once approved, final results will be sent to your student email address and will be made available in <u>eStudent</u>. For more information visit <u>ask.mq.edu.au</u> or if you are a Global MBA student contact globalmba.support@mq.edu.au

Student Support

Macquarie University provides a range of support services for students. For details, visit http://students.mq.edu.au/support/

Learning Skills

Learning Skills (mq.edu.au/learningskills) provides academic writing resources and study strategies to help you improve your marks and take control of your study.

- · Getting help with your assignment
- Workshops
- StudyWise
- · Academic Integrity Module

The Library provides online and face to face support to help you find and use relevant information resources.

- Subject and Research Guides
- Ask a Librarian

Student Services and Support

Students with a disability are encouraged to contact the <u>Disability Service</u> who can provide appropriate help with any issues that arise during their studies.

Student Enquiries

For all student enquiries, visit Student Connect at ask.mq.edu.au

If you are a Global MBA student contact globalmba.support@mq.edu.au

IT Help

For help with University computer systems and technology, visit http://www.mq.edu.au/about_us/ offices_and_units/information_technology/help/.

When using the University's IT, you must adhere to the <u>Acceptable Use of IT Resources Policy</u>. The policy applies to all who connect to the MQ network including students.

General fieldtrip and fieldwork information

COVIDSafe Fieldwork - see next section

General fieldtrip and fieldwork information

A fieldtrip booklet is in preparation and will be distributed to you at the start of the unit.

Weather: We never cancel fieldtrips for bad weather! You must be prepared to work in the rain with the appropriate clothing. Likewise you should always protect yourself from the sun and dehydration.

Transport: You will be driving your own vehicles and carpooling.

Cost: You will pay for your own accommodation, food and other expenses (e.g. petrol).

Food: You will need to bring all food for the fieldtrip and cater for yourself.

Accommodation: You will book your own accommodation. A range of accommodation options from campsites to cabins to motel rooms are available.

Departure: We aim to meet you at the first field site in the Hunter Valley on Day 1. You will make your way and sign on to the fieldtrip.

Returning home: We will be meeting everyone at a pre-designated location to officially sign-off from the fieldtrip. After you have signed off you will be free to travel home.

Signing on and signing off from the fieldtrip and each day: We will have a QR code system in place. Each student will be required to sign on and sign off at the start of the fieldtrip, at the end of the fieldtrip and at the start and end of each fieldtrip day.

Behaviour and conduct: When you sign the Field Friendly trip plan, you are also required to acknowledge that you will abide by Macquarie University policies associated with conducting fieldwork, travel, and behaviour as Macquarie University citizens.

Personal field equipment

Each student should bring the following aids/comforts on each field trip:

- sturdy shoes no sandals, thongs, or open shoes
- wet shoes for walking over gravel in river channels
- · swimmers and towel
- water bottle (full, of course!)
- · wet weather gear we go whatever the weather!!!
- hat and sunscreen
- field note book and pencils (see note below)
- calculator
- · camera and download cable

- · laptop, charger and wi-fi
- all your food
- · a mini-first aid kit
- a day back pack to store it all in

FIELD NOTE BOOK: Each student MUST purchase a small hardcover notebook for use in the field. It should be bound down the spine on the left side. Use only ball-point pen, felt tip pen will run in wet weather and pencil will smudge or rip wet paper. The best, and most expensive, option is a waterproof 'rite-in-the-rain' notebook. Write your personal details on the first page, and a table of contents inside the front cover. On each field day, write the date and project title, the site details, and all observations and measurements, including details of methodology.

It is important that you get into the habit of writing thorough, accurate and legible notes at the outset - after all, if you are an expert witness for some environmental issue, your notebook can be tendered as evidence in legal proceedings, either in the Land and Environment court or at a Commission of Inquiry. Get into the practice of structuring your notebook at the start of each exercise and continually taking notes. Do not depend on others, unless prescribed roles are allocated and this is one of the designated tasks.

Safety in the field

Any student who has a disability or health condition that may limit their participation in field work or that could result in a medical emergency in the field should notify the unit convenor before fieldwork commences. You will be filling in Field Friendly participant forms and sign off on your participation prior to the fieldtrip.

Each student must ensure his/her own safety at all times during field excursions.

- •Do not undertake fieldwork alone. You must work with at least one other person.
- •You must be adequately equipped to undertake fieldwork, including wet weather clothing, warm clothing, hat and sun protection, protective footwear (closed toe boots or shoes).
- •You should bring a first aid kit if you have one.
- •Do not undertake any activity you feel to be unsafe. Discuss with the fieldtrip leader any concerns you have about particular tasks.
- •Be watchful of the safety of your fellow students, if they become separated from the group or are at some other risk. Tell the fieldtrip leader as soon as you notice a potentially dangerous situation

Staying COVIDSafe - during on-campus days and on the fieldtrip

ON-CAMPUS CLASSES.

- All work groups will be arranged before the course starts. There will be no rotation between work groups during the entire 12 days of the course.
- Masks will be worn during class time when indoors.

 All tables, chairs and other surfaces, as well as equipment (e.g. computers, gear) will be wiped before and after use.

FIELDTRIP - S3 2020 Fieldtrips for coursework units are restricted to travel with NSW.

This form constitutes our COVID-safe travel and response plan and has been approved by the Associate Dean of Quality and Standards or the Executive Dean.

Dates of activity

5th – 7th February 2021

Travel times

- All sites are within a ~2hr drive from Sydney/MQ.
- Wollombi township is a 1hr 40mins drive from MQ.
- Wollombi is a 45mins drive from Singleton or Maitland.
- Singleton is 30 min drive to Maitland.
- · Singleton is a 2hrs 10mins drive from MQ.

Staff transport

• The 2 x MQ staff will use a University 4WD to carry field gear. One person will drive, the other person will sit in the back seat.

Student transport

All students will be required to drive themselves and carpool with one other person. To
maintain physical distancing, this will mean one person driving and one person in the
back seat. There will be no rotation of students between vehicles for the duration of the
trip.

Accommodation

- We will stay at the same accommodation for the two nights in Singleton or Maitland that are large towns on the Hunter River.
- All staff and students will be required to book their own single-motel room, a single tent
 site or a single cabon. The students will need to ensure they book accommodation with a
 COVIDSafe Plan and be aware of cancellation terms and conditions. A flexible
 cancellation policy is recommended. The accommodation providers must have
 COVID-19 have cleaning and disinfecting, physical distancing, safety and security, and
 food and drink safety protocols in place.
- Some accommodation recommendations will be provided to the students.

Nature of activity

- Staff will be supervising students and student groups at each field site as per normal practice.
- Activities will vary from physically distanced field site visits, small group field activities
 that will be physically distanced—surveying, sediment analysis, mapping. We will be
 located centrally at one site spread over a large river frontage (up to several hundred
 metres).

Sign in and sign out

- We will encourage all staff and students to have the COVIDSafe App installed and running on their phone.
- We will have a QR code system in place. We will be meeting everyone at a predesignated location and time to officially sign-on and sign-off from the fieldtrip. In addition, each student will be required to sign on and sign off at the start and end of each fieldtrip day.

DETAILED COVIDSAFE PLAN

Pre-fieldtrip briefing -

- All students will receive a briefing and trip pack about the COVIDSafe travel plan before the fieldtrip.
- All students are required to complete sign up to the planned field trip in Field Friendly as
 per the normal process. Additional to agreeing to abide by all university policies and
 codes of conduct, students will also be required to agree to abide by the MQ COVIDSafe
 plan for this fieldtrip.

Overall group size -

At the time of writing (Nov 2020) outdoor gatherings are limited to 30 people. If this
restriction remains in place by February 2021, the class will be split in two and the field
visits and activities staggered in time. With two staff on the trip we will be able to
supervise a group of 30 people each. We will not mix the groups during the trip.

Group sizes at each site -

 On site working groups will be limited to 6 members and 3 cars ONLY. There will be no rotation between groups or cars during the trip.

During the small group activity at each site -

- All field sites will are in open paddocks, river bank parks and Crown land meaning physical distancing of 1.5 m can be maintained.
- If social distancing is not possible (e.g. while surveying), masks will be worn.

Interactions with the general public -

• In the field, there will be no interactions with the general public. The only interactions will be at travel or meal-stops, but these will be minimised.

Stopping locations – (see below for hygiene and cleaning at stops).

Breaks will be taken every 2 hours when driving as per normal practice.

Every day in the field -meal and toilet stops

- Public toilet facilities are available at Wollombi township, Singleton Showground, Lorn
 Park Oval in north Maitland, Wollombi township and Broke McNamara Park. A supply of
 cleaning products, sanitisers and wipes will be available for staff and students to use.
- All meals will be pre-packaged and brought from home. There will be little or no need for meal-stops at food outlets and no need for supermarket shopping.
- If staff or students visit a food outlet they will get takeaway and follow the COVIDSafe guidelines of the establishment (including use of masks).
- There will be NO visiting restaurants or pubs and clubs during this trip.

Evenings of all 3 nights -check-in/out to accommodation, meals

- · Staff and students will use contactless check-in and check-out.
- All meals will be self-catered and food brought from home.
- Staff will check on students in the evening via Zoom.

TRAVEL AND HYGEINE ARRANGEMENTS

Pre-fieldtrip -

 All students will receive a briefing and trip pack about the COVIDSafe cleaning practices before the fieldtrip.

Cleaning packages -

- Cleaning packages will be distributed to each small group field group for their own use and for cleaning equipment.
- Cleaning packages will also be available for each MQ vehicle.
- A supply of masks will be carried by the staff and distributed if needed.
- Students will bring their own cleaning packages for cleaning their own vehicles, personal

effects etc.

MQ vehicle cleaning and refuelling -

- The MQ vehicle will be regularly wiped down with disinfectant between driving blocks
 and at the start, during and end of each day. Car interior will be sprayed and wiped with
 disinfectant each time. Exterior surfaces where people are likely to touch will also be
 disinfected.
- During refuelling, masks and gloves will be used by staff.

Student cars cleaning and refuelling -

- It will be the responsibility of each student to wipe down with disinfectant their own
 vehicles at the start, during and end of each day. Car interior will be sprayed and wiped
 with disinfectant each time. Exterior surfaces where people are likely to touch will also be
 disinfected.
- During refuelling, we will encourage students to wear masks and gloves.

Equipment use and cleaning -

- Equipment will be cleaned at MQ before the fieldtrip.
- Equipment bundles will be assigned to each small field work group at the start of the trip.
- Cleaning and use of equipment will be managed by those small groups under the supervision of staff.
- There will be no rotation of field equipment between groups.
- Each small group will be responsible for the wiping down with disinfectant their assigned gear at the start, during and end of each day, and at the end of the trip when returning it to the staff/MQ.

At each field site or at travel/meal stops -

 Regular use of hand sanitiser will occur at the start, during and end of each site visit, and before getting into vehicles.

At accommodation -

- Staff and students will be responsible for cleaning their own personal effects on top of following the COVIDSafe practices of the establishment.
- At accommodation, staff and students will be encouraged to clean high touch surfaces and practice regular hand hygiene.

COVID-19 EMERGENCY RESPONSE PLAN

Mobile phone coverage:

Coverage is available throughout the trip. There is only one site at the upstream part of
the Wollombi catchment where there is no phone coverage. Staff will be carrying satellite
phones as per normal practice in case of emergency.

Pre-fieldtrip briefing -

- All students will receive a briefing and trip pack about the COVIDSafe emergency response plan before the fieldtrip.
- All students are required to complete and sign up to the planned field trip in Field
 Friendly as per the normal process. Additional to agreeing to abide by all university
 policies and codes of conduct, students will also be required to agree to abide by the MQ
 COVIDSafe plan for learning and teaching.

Daily updates and briefings -

- Staff will stay up to date with daily developments on the NSW COVID situation via the NSW Health website and any MQ announcements.
- A staff daily call back is required via Field Friendly (to campus security). Any updates
 can additionally be sought when call back is made.
- A start-of-day briefing will be provided to all staff and students, as part of normal fieldwork WH&S briefings.

In the event that any participant (staff or student) exhibits symptoms of COVID-19.

- · All fieldwork will cease immediately.
- Affected staff and students (close contact group members) will drive in their own vehicles
 to the nearest COVID-19 testing clinic. There are three available drive-thru testing clinics
 within the field area. All are within a short drive of field sites. If needed, the entire class
 will be tested. All these hospitals have the facilities that could support a team member
 with COVID symptoms.

Singleton Hospital (Dangar Rd, Singleton) - (02) 6571 9248

Cessnock Hospital (24 View Street) - (02) 4991 0436

Maitland Hospital (560 High St, Maitland NSW 2320) - (02) 4939 2000.

- To reduce the risk of transmission to other team members, the remainder of class to adopt wearing of masks, self-isolate in their accommodation, and be alert for symptoms until updated on next steps by staff. Throughout, the staff and students would maintain social distancing and vehicle hygiene protocols.
- All equipment and vehicles used by any potentially affected team members to be

isolated.

 The Department Fieldwork Manager (Sarah Collinson) or Department Manager (Sarah Henry) will be contacted and the staff will await direction from the University about next stages (with the option to self-isolate in place until test results are received, then return to Sydney).

In the event that a cluster is identified in the field area, the area declared a hotspot or travel restrictions change.

- · All fieldwork will cease immediately.
- The Department Fieldwork Manager (Sarah Collinson) or Department Manager (Sarah Henry) will be contacted and the staff will await direction from the University about next stages. If a return to Sydney is ordered, this will occur immediately. Travel time to Sydney from any of the field sites is around 2 hrs.