12 Sci 21 Collection of Work
Part 3 Stradbroke Assignment

What do you have to do?
How can you organise your notes?
How do you find good info?

See Shared Drive for this slideshow or get it from your Online Library in School
Help>Assignment Help
FIELD TECHNIQUES

TASK
You will submit a collection of work from your North Stradbroke Island field study and class analysis.

1) **Field study booklet**
   - Data will be collected in groups but questions completed individually

2) **Comparing ecosystems report**
   - Compare and contrast **TWO** of your North Stradbroke Island study areas (swamp community, mangrove community or beach/dune succession)
   - Using the data you have collected, argue that one area demonstrates the relationship between biotic and abiotic factors more clearly than the other.
   - Your argument should discuss each area under the following headings, giving clear statements of comparison/contrast between the two:
     - Introduction
     - Abiotic factors
     - Key plant communities and their adaptations
     - Animal communities and their adaptations (where applicable)
     - Conclusions - relating biotic adaptations to the abiotic factors to select which area best displays this relationship.

3) **Sand mining**
   The Qld Government has recently announced a stop to all sand mining on Nth Stradbroke Island. Premier Anna Bligh has said "The truth is that sand mining should never have been allowed to begin on North Stradbroke Island. It was a mistake." Do you agree with this statement?

**Part A**
1. Research this issue and complete a list of 10 correctly referenced sources that present reliable information from the point of view of a range of stakeholders in this argument.
   a. Use a table similar to the one below.
   b. The Online Referencing Generator from the “Referencing” section of your Online Library is the best tool to use for creating accurate bibliographical entries. *(ben22 is the password; leave the username box empty)*

<table>
<thead>
<tr>
<th>Bibliographic Information about Source</th>
<th>Point of view presented <em>(tick one or more boxes)</em></th>
</tr>
</thead>
<tbody>
<tr>
<td>Mining Company</td>
<td>Environmentalists Traditional Peoples Government Academic/Other</td>
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### PLAN WHAT YOU'RE GOING TO SEARCH FOR

<table>
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<tr>
<th>Key Words</th>
<th>Related Key Words</th>
<th>Boolean combos for Google</th>
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<td>North Stradbroke Island</td>
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<td>stradbroke AND (sand mining OR sand-mining OR sandmining)</td>
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<td>sand-mining, sandmining</td>
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<td>Controversy, debate</td>
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<td>pros, support, agree, positive, benefits</td>
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<td>against</td>
<td>Cons, opposed to, disagree</td>
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<td>stakeholders</td>
<td>“people affected by”, indigenous, environmentalists etc</td>
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</tr>
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**stradbroke “sand mining” (argument OR case OR views OR positions)**

- **Web**
  - Images
  - Maps
  - Shopping
  - More
  - Search tools

  ![Search Results](image1)

- **North Stradbroke Island - Wikipedia, the free encyclopedia**
  - [en.wikipedia.org/wiki/North_Stradbroke_Island](en.wikipedia.org/wiki/North_Stradbroke_Island)
  - North Stradbroke Island is an Australian island in the state of Queensland, 30 km ... 1 Geography, 2 Beaches, 3 History, 4 Indigenous inhabitants, 5 Sand mining ...

- **Stradbroke Island History**
  - Stradbroke Island History is a comprehensive look at the history of ... Indigenous culture that spans more than 25000 years - Stradbroke History ... Sand mining was first established on the Island in 1949 when Zinc Corp set up ...

- **Native Title win for North Stradbroke Island - Australian Geographic**
  - Jul 5, 2011 - ... Aboriginal people have been given Native Title for North Stradbroke ... receiving revenue from the island’s lucrative sand mining industry.

- **Elders want Inquiry into Stradbroke ‘illegal mining’ | Eco News**
  - 2 days ago – Tweet. Stradbroke Island-sand mining. Indigenous elders in the northern state of Queensland have called for an inquiry into Illegal mining on ...

- **Protest demands end to mining on Stradbroke Island | Green Left**
  - Sep 11, 2010 – ... Issue is deeper than sand-mining on Stradbroke Island! ... Aboriginal ... Indigenous groups to support a court case in which mining company ...

- **Rebuilding Stradbroke Island after sand mining - ABC News**
  - Rebuilding Stradbroke Island after sand mining. Updated April 15, 2011 21:54.00. The dilemmas of a sustainable environment and a sustainable economy.
i. Research this issue and complete a list of 10 correctly referenced sources that present reliable information from the point of view of a range of stakeholders in this argument.

### Bibliographic Information about Source

<table>
<thead>
<tr>
<th>Source 1</th>
<th><a href="http://savestraddie.com/site/stop-sand-mining-now">http://savestraddie.com/site/stop-sand-mining-now</a></th>
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</table>

(See Online Referencing Generator)


<table>
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<tr>
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<th>Mining Company</th>
<th>Environ.</th>
<th>Traditional Peoples</th>
<th>Gov</th>
<th>Academic/Other</th>
</tr>
</thead>
</table>

Just check out these details

**Source 1**

**About us**

We are pleased to have the support and involvement of leading Queensland environmental groups in our campaign to bring an end to sand mining and for most of the Island to be declared National Park. Friends of Straddroke Island (FOSI)

- Stradbroke Island Management Organisation (SIMO)
- Queensland Conservation Council (QCC)
- Wildlife Preservation Society of Queensland (WPSQ)
- Fraser Island Defenders Organisation (FIDO)
- Moreton Island Protection Committee (MIPC)
- Community Alliance for Responsible Planning (CARP) Redlands.
Case against sand mining

Anna Bligh must end the mining madness – stop mining on expired leases now!
2 ½ ha of NSI’s ancient dunes and forests are destroyed every week the Bligh Government delays.

North Stradbroke Island is loved by many south east Queenslanders. It has beautiful beaches, forests, sand dunes, heathlands and wetlands. Sandmining on the island involves clearing vast areas of vegetation, destroying dune structures and the topsoils (which are integral to the important aquifer below), and threatens the island’s water bodies and animals such as the island’s koala.

- Sandmining is locking up more than half of North Stradbroke Island. See more.
- Stradbroke’s economy and future relies on tourism; this tourism is based on the island’s beaches, dunes, lakes, forest, heaths, and other natural areas.
- Mining requires the complete destruction of old growth forests, woodlands, creeks, animal habitat, sand dunes and the underground layers of ancient sands which hold the water as it percolates to the aquifer below. See more.
- ‘Rehabilitation’ by the mining company cannot replace the ancient dunes and complex ecosystems which they support. See more.
- The mining company, Sibelco, pays royalties of just 5% of the value of the mineral sands. See more.
- Just one quarter of 1% of Qld’s mining revenue comes from Stradie mining. See more.
- The government is allowing mining on mining leases which expired in October 2007, more than three years ago. Other mining leases are due to expire soon.
- The mineral sands mining (the most destructive type of the mining) can be stopped by 2013 without paying any compensation. The government should stop this mining by refusing to renew leases which have expired.
- Queensland’s Court of Appeal has found that the mining company was illegally taking sand off the island and selling it for construction purposes. The sand illegally taken has a retail value of about $80 million. See more.
- A huge body of water, an aquifer, is naturally stored within North Stradbroke Island. Sandmining dramatically alters the structure of the sand dunes, risking the fragile aquifer. Sandmining on Straddie has already caused damage to the island’s water bodies. The current extensive industrial mining operations place Stradie’s water bodies at risk. Mining’s effect on the hydrology of the Island is not properly understood by scientists. Pristine lakes on the Island have been damaged by mining and other waterbodies are threatened.
- Rare and endangered plants and animals are threatened through the loss of their habitat. The Island’s koala is unique, being genetically distinct from other koalas.
- The mining company, Sibelco (formerly called Unimin Australia Limited), owns and controls all sand mining operations on the Island. The Sibelco group is a very large multinational company with a worldwide turnover of $2 billion. It is owned by a very wealthy Belgian family. See more.

See a detailed document as to why sandmining on Stradie must be stopped.
### 12 Sci21 Stradbroke Note-making Table

<table>
<thead>
<tr>
<th>Source</th>
<th>Arguments against sand-mining</th>
<th>Arguments for sand-mining</th>
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</tbody>
</table>
PART B

i. From the **table above**, choose what you consider to be the **best source** of information that argues **against** sand mining AND the best source of information that argues **for** sand mining on Nth Stradbroke.
   
   a. **Alternatively**, you may like to choose an information source that is simply the most useful for providing a balanced view on this topic.
   
   b. Either way, you must have **two reliable sources in total**.

ii. Complete an annotated bibliography for each source.

   a. The **table below** models what is expected of you though on a different issue: genetically engineered foods.

### ANNOTATED BIBLIOGRAPHY IN TABLE FORMAT

<table>
<thead>
<tr>
<th>Bibliographical information about source (copied from table above)</th>
<th>1. Explain what makes the source one of the two best. Things to think about include:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>a. What aspects of the argument does the source deal with?</td>
</tr>
<tr>
<td></td>
<td>b. Is the source up-to-date?</td>
</tr>
<tr>
<td></td>
<td>c. Is the subject dealt with fully and accurately, or is it treated superficially? Has the author omitted to deal with certain aspects of the topic? In other words: is it comprehensive and unbiased?</td>
</tr>
<tr>
<td></td>
<td>d. How credible is this source? Is this article from a highly respected professional journal or is it posted on the web by a narrow interest group?</td>
</tr>
<tr>
<td>VEA, 2005, Bicethics, Click view, (online), <a href="http://www.clickview.com.au/">http://www.clickview.com.au/</a>, Accessed 5th August, 2009</td>
<td>a. This information was presented in the form of a video and described in great detail the specific procedures used to create genetically modified foods and also described the advantages and disadvantages of such technology. It was created for the purpose to inform and information was gathered in a variety of manners, including several interviews with specialised scientists.</td>
</tr>
<tr>
<td></td>
<td>b. The key strength of this video was that everything was stated in a clear and concise manner, with several diagrams to help the viewer understand the meaning of what was being said. There was no obvious bias and this source can be classed as reliable due to the number of scientists being questioned and due to the biology-specific language used to explain these concepts. This video was very helpful and will form the basis of a couple of my points for my essay.</td>
</tr>
<tr>
<td>Whitman, D., 2000, ‘Genetically modified foods: harmful or helpful?’ (Online), <a href="http://www.csa.com/discovery">http://www.csa.com/discovery</a> guides/gmfood/overview.php, Accessed 22nd July, 2009</td>
<td>a. This article is about genetically modified foods: advantages, disadvantages and how prevalent they are on our shelves and in everyday life. Consequently it provides an excellent summary of arguments on both sides of the issue.</td>
</tr>
<tr>
<td></td>
<td>b. This website was last updated at a time when genetically modified foods were a relatively new concept for the public and when they were making a disturbance with the public. Its primary purpose is to help the general public decide for themselves whether genetic modification is suitable. To do this, issues were explored thoroughly and with separate chapters dealing with arguments for and against GM foods, it was an excellent source...albeit a bit old.</td>
</tr>
<tr>
<td></td>
<td>c. While this article contains both sides of the genetic modification debate, the author tends to be slightly biased towards the positives that genetic modification brings.</td>
</tr>
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<td>d. Although Ben Harding is the producer and director of this DVD and he, himself is not an expert on the topics, the scientists he interviews are. For instance...</td>
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<td>This author is a CSA senior editor and has a B.S. in Biology and a M.S. in biotechnology and terminology she uses suggests that she has alot of knowledge on this topic.</td>
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PART C

i. Based on your readings from the sources above, do you agree with the Qld government’s decision in closing the sand mines on Nth Stradbroke Island? Justify your position in about 400 words, making sure you consider issues on both sides of the argument and the scientific impacts of sand mining.

ii. Use of in-text referencing will give power to your argument.
   
a. The Save Straddy Organisation (2012) notes that the technique used in sand mining (dredge mining) is very destructive and that it destroys “the sand dunes and soil structure which have taken millions of years to naturally develop”.

b. Indeed it is reasonable to say that the successful rehabilitation of an area exposed to sand mining is next to impossible since it destroys “the sand dunes and soil structure which have taken millions of years to naturally develop” (Case Against Sand Mining; 2012).

c. For those against sand mining, the environmental repercussions far outweigh economic gain. The Save Straddy Organisation (2012) notes that sand mining on Straddie for mineral sands uses a technique called dredge mining; this is very destructive and requires the removal of all vegetation and digging very large mining craters, destroying the sand dunes and soil structure which have taken millions of years to naturally develop.
Top 5 Ways of searching

1. Lots of key words in Google

<table>
<thead>
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<td>Cons, opposed to, disagree</td>
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<td>stakeholders</td>
<td>“people affected by”, Indigenous, environmentalists etc.</td>
</tr>
</tbody>
</table>
Top 5 Ways of Searching

2. Combine key words in a Boolean Search
Top 5 Ways of Searching

3. Search for recent “news” about your topic: use fewer search terms here
Top 5 Ways of Searching

4. Try different Search Engines

Access via the school home page: scroll and click on the Online Library Link
Stradbrooke Island's sand mine stoush - The 7.30 Report - ABC
www.abc.net.au/7.30/content/2010/02/31/23150548.htm
Just two years ago, the Queensland government gave Stradbrooke Island sand mining company Unimin an environmental award, but now they're taking them to court. The...

Rebuilding Stradbrooke Island after sand mining - ABC News ...
www.abc.net.au/news/stradbrooke-island-after-sand-mining/2011970
Rebuilding Stradbrooke Island after sand mining... A line in the sand that's what the State Government's... Karen Berkman reports. (FOOTAGE OF STRADBROKE ISLAND SAND...)

Sand mining ban and national park status for North Stradbrooke Island
THE ancient dunes of North Stradbrooke Island will be saved under a bold new plan to phase out sand mining... and convert the... The QLD government has a vision of...

North Stradbrooke Island - Wikipedia, the free encyclopedia
en.wikipedia.org/wiki/North_Stradbrooke_Island
The Queensland Government... A report released by Synergies Economic Consulting in 2010 predicts the... early closure of sand mining on North Stradbrooke Island...

Qld elders want Stradbrooke mining inquiry | The Australian
INDIGENOUS elders are calling for an inquiry into illegal mining on the world's second largest sand... Qld elders want Stradbrooke mining... government, Unimin can only...

Wildlife Queensland: Potential blow to North Stradbrooke Island
Groups concerned about the future of Stradbrooke Island are alarmed that not only would an LNP... government extend mining on North Stradbrooke Island but also it would...

Sand mining on Stradbrooke to stop in 2025 - Australian Geographic
www.australian Geographic.com.au/Journal/sandmining/on/stradbrooke-to...
Sand mining on North Stradbrooke Island will finish two years earlier than planned, says the Queensland... government. Home... Nikki Parker from anti-sand-mining group Save...

Wildlife Queensland - Halt Sand Mining on North Stradbrooke Island
It is now time to stop sand mining on Stradbrooke Island... Wildlife Queensland urges the government to... halt sand mining on Stradbrooke Island and protect the...
Top 5 Ways of Searching

5. Try the Australian and New Zealand Reference Centre via State Library Databases
State Library Databases

“Search Central” link in Online Library
- Go to “Databases and Journals”
- Click on “The State Library of Queensland”
  - Scroll down until you find the law/science/news databases
  - Click on the link
  - Click on the database you’re interested in (ALWAYS full text)

Law
General and specialised law information including legal encyclopaedias, case law, law reports, family and environmental law. Search all law eresources or case law, journal articles, legislation, reference.

Multi-subject
Use these resources to search across different subjects. A great place to start for school assignments. Included are Encyclopædia Britannica, Gale Virtual Reference Library, JSTOR and Oxford Reference Online. Search multi-subject eresources.

Music
General and specialist encyclopaedias, sound recordings and music scores including Oxford Music Online, Classical Scores Library, Opera in Video and the New Grove Dictionary of Music and Musicians. Search all music eresources or general, sound.

News
News from Queensland and around the world both current and historical. Includes NewsBank, Trove digitised Australian newspapers, and the UK Times Digital archive. Search all news eresources or Australia & New Zealand, international.

Politics and government
Australian and international resources including Australia/New Zealand Reference Centre, Australian Public Affairs-Full Text and JSTOR. Search politics and government eresources.

Reference

Science and technology
Encyclopaedias, standards and journal articles in all areas. Specialist databases include Standards Australia and Access Science. Search science and technology eresources.
## Search for "Subject=News, Sub-Category=ALL" found 15 Databases

**Table View**  [Brief View](#)

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<thead>
<tr>
<th>Database Name</th>
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<td>Index New Zealand</td>
<td>Database</td>
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<td>Margaret Gee's Australian Media Guide</td>
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</table>
One Search

Login to access ejournals, databases and eresources

Access is available to State Library of Queensland members and Queensland public library members with a Queensland public library (QPL) account.

Use either your:

1. SLQ library card barcode number:
   B
2. Last name:
3. Login  Clear

Register for an SLQ library card
Lost your SLQ library card?

OR...

1. QPL account user name:
2. Password:
3. Login  Clear

First time user? Register for a QPL account
Forgot your username or password?
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<tr>
<td>Diagram</td>
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<tr>
<td>Illustration</td>
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1. **Stopping sand mining could change votes**
   *ABC (ABC)*, 05/03/2010.
   Database: Australia/New Zealand Reference Centre

2. **SIBELCO Australia is seeking the community’s views**
   Database: Australia/New Zealand Reference Centre

3. **QLD: An end to sand mining on Stradbroke**
   Database: Australia/New Zealand Reference Centre

4. **Hundreds join mine closure protest**
   Database: Australia/New Zealand Reference Centre

5. **LNP treat Parliament as ‘farce’ over Stradbroke Island**
   Database: Australia/New Zealand Reference Centre
1. **QLD: An end to sand mining on Stradbroke**
   
   Databases: Australia/New Zealand Reference Centre
   - Add to folder
   - HTML Full Text

2. **Concerns over sand sell-off - Quarry controversy on island minefield**
   
   By: Brian Williams, Courier Mail, The (Brisbane), 17/03/2008.
   Databases: Australia/New Zealand Reference Centre
   - Add to folder
   - HTML Full Text

3. **QLD: Sand mining to end on North Stradbroke**
   
   Databases: Australia/New Zealand Reference Centre
   - Add to folder
   - HTML Full Text

4. **Sand mining company proposes expanding Stradbroke national parks**
   
   ABC Premium News, 21/05/2010.
   Databases: Australia/New Zealand Reference Centre
   - Add to folder
   - HTML Full Text

5. **Hearing adjourned for Stradbroke sand mining company**
   
   Databases: Australia/New Zealand Reference Centre
   - Add to folder
   - HTML Full Text

6. **QLD: An end to sand mining on Stradbroke**
   
   Databases: Australia/New Zealand Reference Centre
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What do you have to do?
How can you organise your notes?
How do you find good info?

See Shared Drive for this slideshow or get it from your Online Library in School Help>Assignment Help