

Candidate 4 evidence

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1a)	<p>It is seen that in diagram Q1B the average monthly flow in July, August, September, October is very high, peaking at around 5500 cumecs. This means that there is an established wet season and risk of flooding during this time. Water management would help control this and reduce the risks involved in flooding.</p> <p>In Diagram Q1C, it is seen that the temperature in ASosa is always around 20°C and peaks at 25°C in March.</p>	

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	<p>The heat means that water will have to be managed so it can be used as a cooling device. It will be in higher demand in places such as factories as they must prevent their machinery from overheating.</p> <p>In Diagram Q1D, it shows that the projected population growth in Ethiopia is to go from just over 100 million in present day to double that at 200 million by 2050. This substantial increase in</p>

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people means that there will also be an increase in demand for water, particularly for drinking and sanitation.

It is seen in diagrams Q1A that there are close neighbouring countries. Water management is needed so that countries are not accused of "stealing" water from one another, potentially causing conflict. In diagram Q1E it is seen that 73% of the population is employed in agriculture. This creates a need

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For water management as irrigation will have to be controlled.

b) The river management project studied is the Colorado river basin. One negative consequence is that conflicts have been created with neighbouring states. There have been arguments about what water belongs to who as the river runs through several states. Another negative consequence is that

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	There have been droughts.	
	Some farmers have taken	
	more water than others,	
	leaving some areas	
	without any left.	

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2a)	Malaria has had many
	many impacts on people
	and the economy.
	Firstly, it causes
	extreme illness. People
	who contract malaria
	are left bedridden and
	weak and many die
	from it.
	Secondly, because they
	are ill, children miss
	out on education. Even
	if they are lucky and
	survive the disease,
	children still miss
	months of school
	whilst recovering which
	could have a major
	impact on grades and

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	future opportunities.
	Thirdly, 'ill people are
	unable' to work. This
	means that some
	families have to survive
	on no income and
	become malnourished.
	Also that the economy
	of the country struggles
	Fourthly, children are
	orphaned. If kids
	parents die, many
	have no other relatives
	and are left to fend
	for themselves. This
	is dangerous and
	children struggle to
	look after younger
	siblings.

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	<p>Also, the treatment of malaria has cost the countries affected millions, damaging the economy.</p>	
	<p>b) There are many strategies used to manage malaria. Firstly, insecticides can be used. Mosquito repellent can be bought for quite cheap and sprayed onto the skin. This discourages the bug from biting. Secondly, mosquito nets are used. These are also a cheap option, provided</p>	

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	by many charities. You	
	hang the net over	
	your bed and are	
	protected from mosquitos	
	biting you whilst you	
	sleep.	
	Thirdly, eucalyptus is	
	planted in the ponds	
	where mosquitos breed.	
	This makes the water	
	fresh by soaking up the	
	stagnant water. This	
	keeps away mosquitos	
	and stops them from	
	breeding as they like	
	to breed in stagnant	
	water.	
	Fourthly BTI coconuts	
	are used in these	

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ponds. The mosquito larvae feed on the bacteria from these cocoons and it destroys their stomach lining, killing them.

These can keep a pond larvae free for 45 days. Another method is to drain ponds. This removes breeding grounds.

5a) One advantage of the proposed site of the airport expansion is that there is a large area of flat, open space in 0877. This

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	<p>means that the ground will be easy to build on, and and be large enough to accommodate the rising number of passengers (projected 100 million in 2030 according to diagram Q5B)</p>	
	<p>One disadvantage of the site is that it is very close to large housing areas such as West Drayton in UB7 9. This may cause issues as a runway will produce a lot of noise pollution and people will most likely complain. ^{or even move away, damaging local economy}</p>	
	<p>Another disadvantage is</p>	

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	That the proposed site obstructs the A4 at 065769 065769. Whether this section of the road is kept one or cut off, it will cause traffic congestion as people will have to use alternative routes.	
	A third disadvantage is that there are rivers near within the proposed site such as R. Colne.	
	This is an issue as fumes and fuel from the planes may pollute the water, potentially causing environmental damage to fish and	

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animals near the river.

This is furthered by diagram Q50 where it shows people protesting against the ~~river~~ site to protect the climate, something that will also be affected by the fumes produced. Another disadvantage is that the site runs over several wooded areas such as the one in Q33772. This is an issue as habitat for wildlife will be completely destroyed. This will have a very negative impact on biodiversity as

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	That may have been some	
	species only that shift	
	habitat in the area.	
	Another advantage is	
	that as the site	
	is close to so many	
	housing areas, those	
	people will gain jobs.	
	Within the site there	
	will be many jobs	
	to be done in shops	
	etc. and locals will	
	be able to have a	
	job nearby and not have	
	to travel so far, saving	
	them money and	
	reducing the fuel	
	emissions from cars.	