# Auckland Council Small Sites Project Update

**Graham Jones** 

17th November 2016

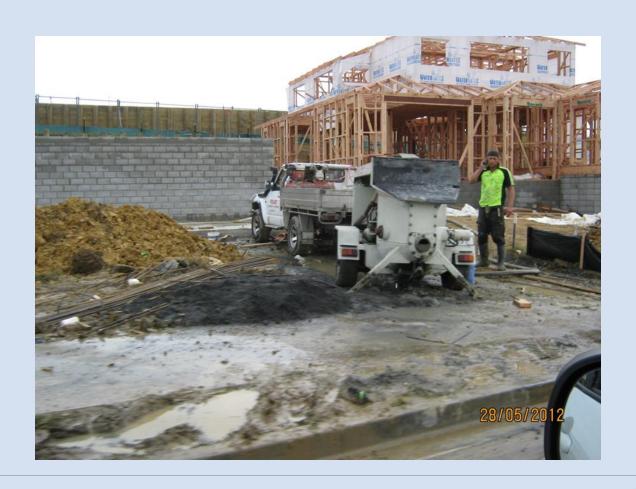


# Usual small site issues, mud mud glorious mud?





### Concrete





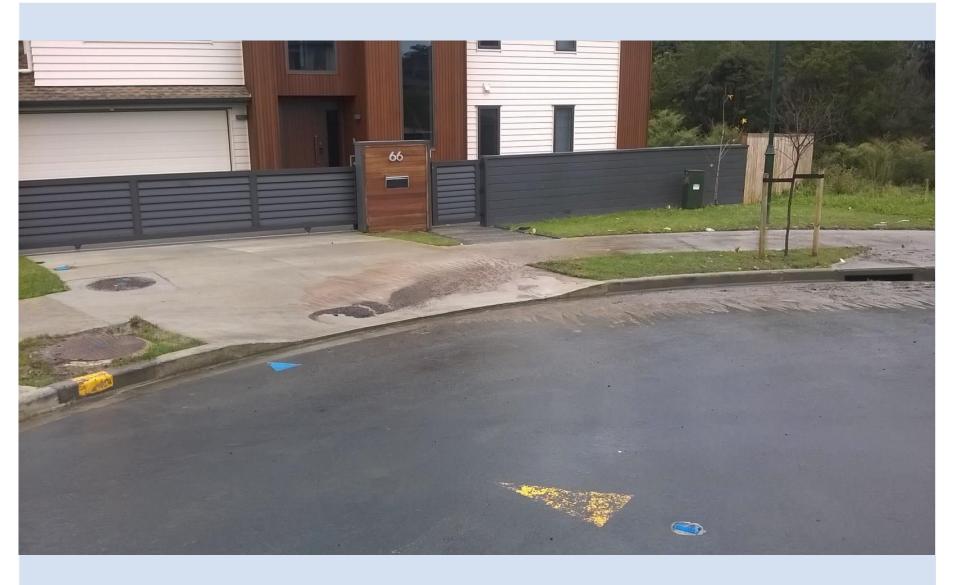




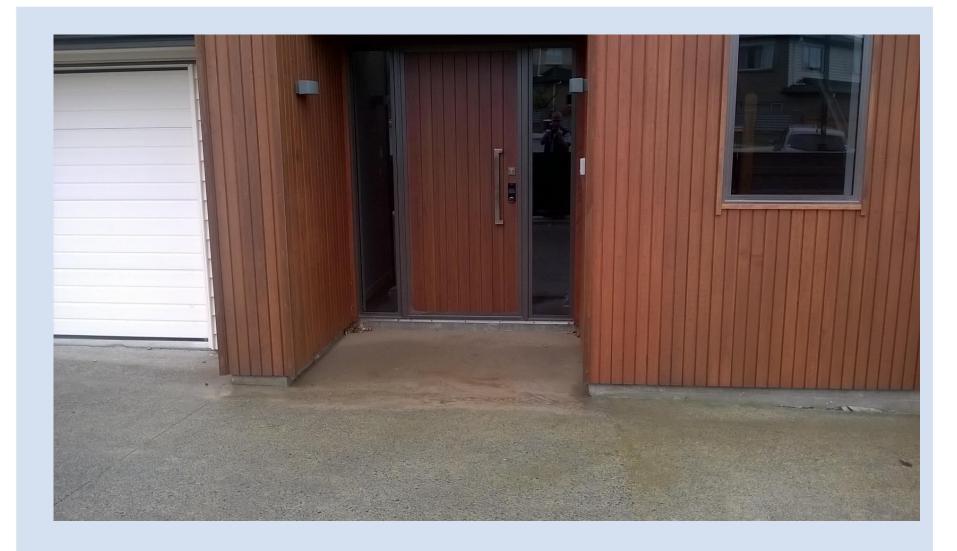
# Infrastructure damage



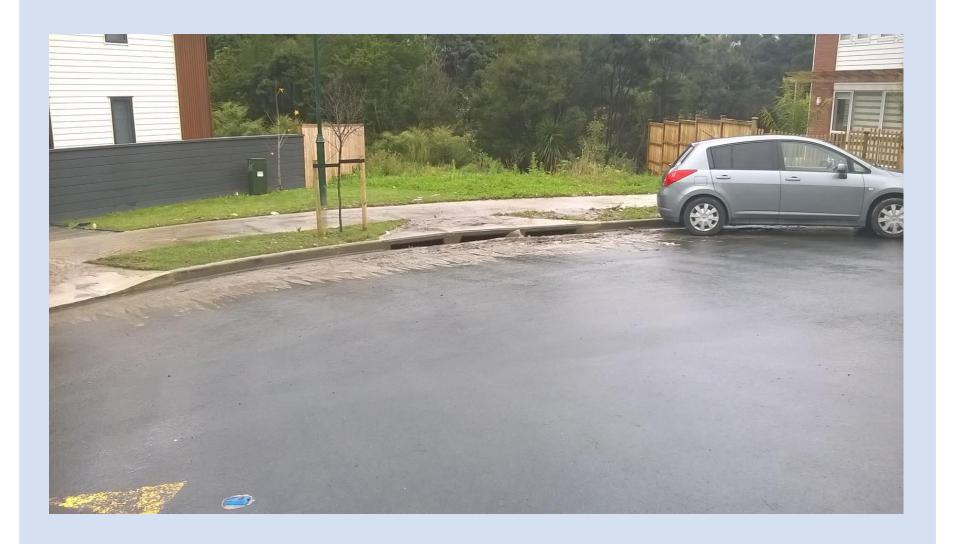




















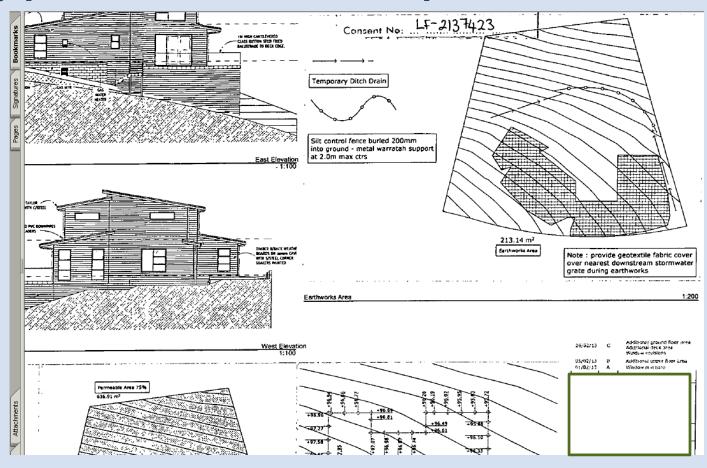


# Developers: Lack of knowledge





# Typical small site plans

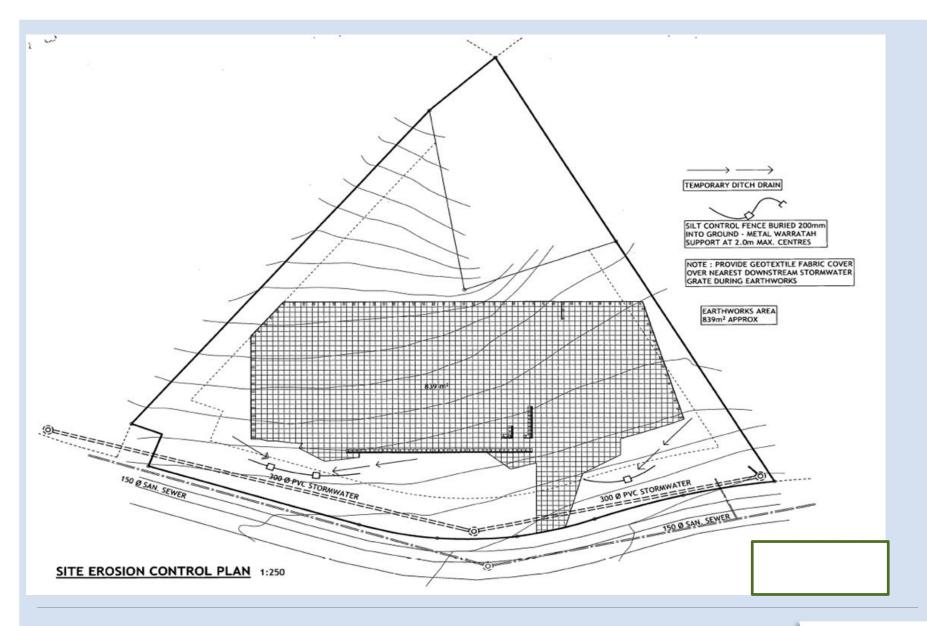




# The reality









### The reality: What they did...





### Add wet weather... Result!





# Long bay

- Work closely with TPG
- Pre installed silt fences
- Install on site signage
- Regular catch ups with Development team
- Monitoring staff attend sub-division meetings



### Pre installed silt fences



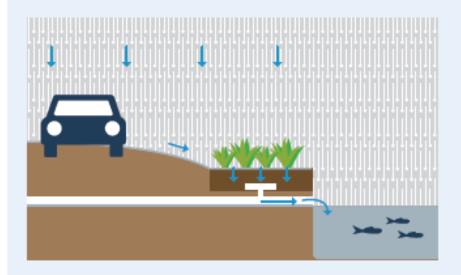






### Attention: I am a rain garden

My job is to filter stormwater, preventing harm to our coastal environment and our fisheries.



### I can be easily damaged by:

- driving vehicles on me
- · construction site sediment
- pollution.

Find out more: phone 09 301 0101 or visit www.aucklandcouncil.govt.nz



### Building on small sites

Five easy ways to protect the environment during your build





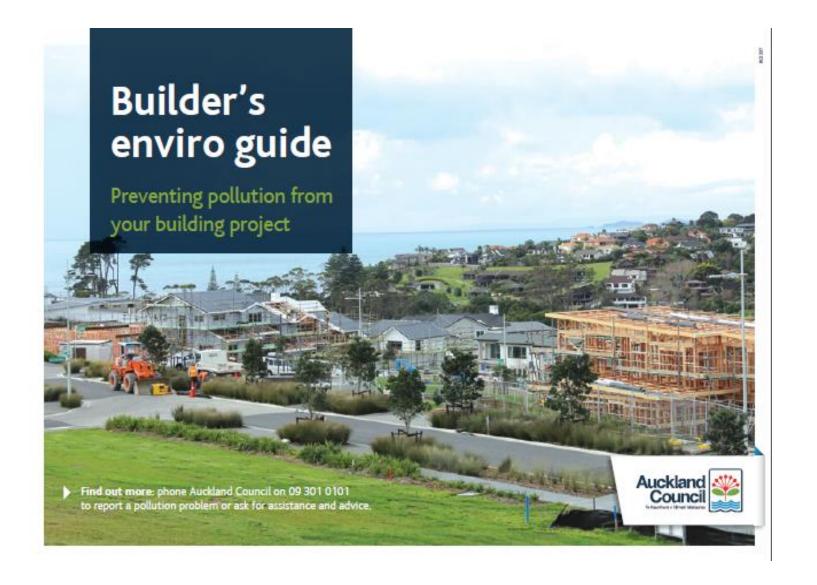




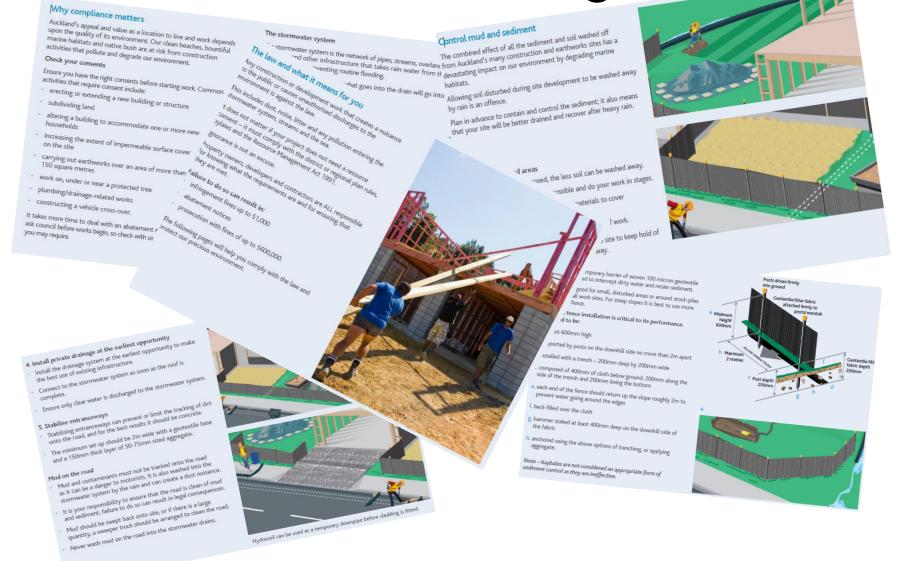




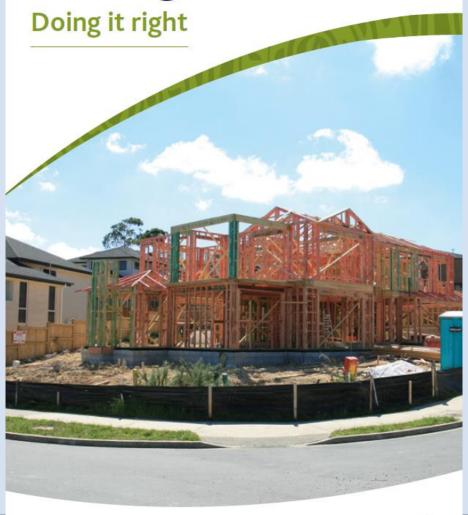




Contents image



### **Building on small sites**



Find out more: phone 09 301 0101 or visit aucklandcouncil.govt.nz





Keep vehicles off exposed soil and clay—build a stabilised entranceway with geotestile cloth and large washed aggregate.

The minimum set-up for your entranceway should be at least

- a 150mm thick layer of 65 100mm-sized aggregate long enough for your site with 'wings' (to allow for vehicles cutting corners). - 4m wide with a geotextile base
- Don't use materials like sand, crushed concrete or asphalt to make Mud should be swept back on to site (not on to the road).

- A stabilised entranceway prevents vehicles tracking mud and clay on to the road further is a common source of reenplaint on reservit. A stabilised entranceway prevents venicles tracking mi (which is a common source of complaints to council).
- Mud and contaminants can make a road slippery and dangerous,
  make you have a road slippery and dangerous,
  regions be washed into the stormwater system by the rain or create a dust
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  region of the stormwater system by the rain or create a dust It is your responsibility to ensure that the road is clean of mud and sediment.
   Failure to do so can result in a fine or prosecution.

### Before the project starts Read your consents

- In many cases you may have both a resource consent! and a building consent? Before starting work you need to know what your consent conditions are.
- Make sure your contractors and subcontractors know the consent conditions. Let council know when you're about to start work.

urce consent has conditions about how your development will affect the environment , air, water, neighbours, streetscape, etc).

onsent gives the details of how construction will occur.

### During the site works

### Control mud and sediment

You need to prevent soil on your site being washed away by rain.

You can do this by installing sediment and erosion controls to contain your sediment on site.

Not taking care of this is an offence and you can be fined.





### Drain/catchpit protection

There are many problems with catchpic protection. It should only be used to support the other sediment control measures mentioned earlier. Talk with your compliance officer about the best options for your site.



- install a series of sand socks in the kerb channel this will slow the flow of the material opened to datas socks in the new criminal — the win water allowing more sediment to drop out of the water
- check it regularly especially after there's been a lot of rain remove it when your job is finished.

### install private drainage at the earliest opportunity

Once the roof is on, install drainpless (temporary or permanent) so rainwater can be diverted to stornwater drains.

Clean rainwater is diverted from exposed site, making it less mudoy and sending only clear water down stormwater drains.





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### Video's

- Good building site management
- Building a silt fence and bunds
- Stabilising an entranceway
- Working with concrete
- Catchpit protection



### Embed video/s



### Other work



www.beca.co



Repor

Erosion and sediment control on small construction sites: Co-creating a process for changing our practice in the Mahurangi

Prepared for

Prepared by Beca Ltd (Beca) and Environmental Communications Ltd

30 June 2016





### What's next

- An "over the fence" guide
- Work on accreditation
- Work on education
- CEC project
- CME project
- Newcore
- Translation
- Website



### Innovation .....!!



