

Aug 11, 2013

PIN-4: Byron Bay
First Year Monitoring
Aug 12-17, 2013

The Following Field notes were
recorded along with Monitoring
Well logs.

A photolog and GIS notes appear
in a separate book.

Water Samples:

3 x 40mL vials

1 x 1L Amber glass

1 x HDPE

2 x 250mL Amber glass

1 x 150 mL clear glass

Soil Samples:

250mL glass

120 mL glass

60 mL glass

Whirlpak

dup: twice all containers

Archive: as above

Interlab: With 1x120mL
amber glass and
additional WP.

13 Aug, 2013

DAY 1: PIN-4: Byron Bay

1255h - Partly Cloudy, 14°C, 5 knots ESE

Kathryn Eagles, Mike Musclow, Jeff Donald

Tier II Facility - MAP* Not to Scale



MW-01B
- DRY -
09340/41 (dup)
09342

Tier II

standing water

MW-04
09333
09346
09347/8 (Archive)

MW-03
09332
09344
09345 (inter-lab)

MW-02
09330/31
09343
* No depth

Notes:

- No water could be collected from MW-01B well was frozen or dry.
- Standing water surrounding MW-02 prevented the collection of a sample from depth.

(2)

13 Aug, 2013

DAY 1: PIN-4 - Tier II Control

MW-01B

No water sample collected. Well was dry or frozen at time of sampling.

Soil

2013-09340/41 (dup) 0-10cm

Lt brown med. grained sand w gravel

2013-09342 30-40cm

Lt brown med. grained sand w gravel

MW-02

Water

2013-09330/31 (dup) - Cloudy + translucent

Soil

2013-09343 0-10cm

Saturated. Muddy silty/clay. Dark brown. Organics

*No depth could be collected as no hole could be successfully dug in standing water.

Summary-Samples

H₂O: 2013-09390-33 dups: 330/31 (4)

Soil: 2013-09340-48 dups: 340/41 (9)

13 Aug 2013

DAY 1: PIN-4 - Tier II Cont'd

MW-03

Water:

2013-09332: Transparent, colourless
with light-coloured sediment.

Soil:

2013-09344: 0-10cm

Sandy lt brown loam.

2013-09345 (interlab) 30-40cm

Sandy lt brown loam.

MW-04

Water:

2013-09333: lt yellow/brown, transparent

Soil:

2013-09346 0-10cm

lt brown med. grain sand

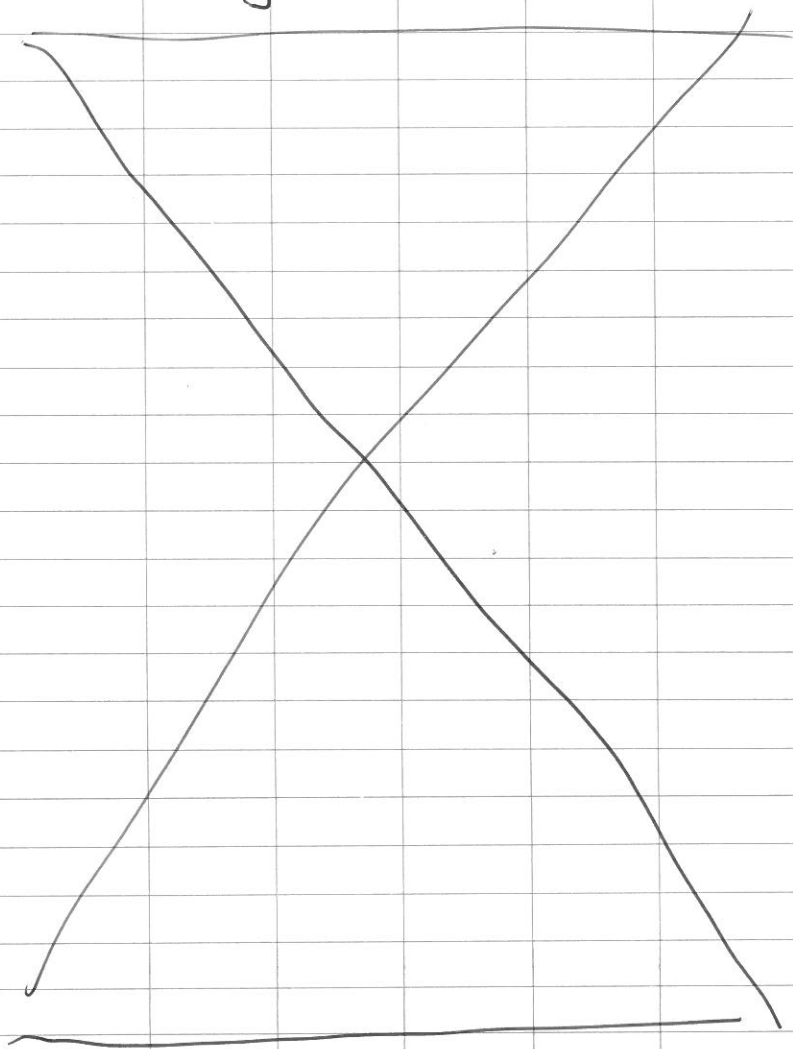
2013-09347/48 (Archive) 30-40cm

lt brown med. grain sand.

(4)

DAY 1: PIN-4 - Tier II Cont'd

End of day: 1912h



⑤ LEVEL

14 Aug, 2013

PIN-4: Byron Bay Day 2

1050h - Hazy, overcast, 15°C, Med Wind
~45 Knots ESE.

Kathryn Eagles, Mike Musclove, Jeff Donald.
Also in attendance:

James (NTI)

Seannie (Cambridge Bay)

Nahed (DCC)

Laura (DND)

Non-Hazardous Waste Landfill (NHWL) - Map*

* Not to Scale



MW-08
09334
09356
09357/58

Non-
Hazardous
Waste Landfill

MW-07
09334
09335
09354
09355

MW-05B
09349
09350/51

ROAD

MW-06
09352
09363

⑥

14 Aug
2013

DAY 2: PIN-4 - NHWL Cont'd

MW-05B

No Water Sample collected as well was dry or frozen at time of sampling.

Soil

2013-09349 0-10cm

lt brown med. grain sand, some organics at surface, ~10% gravel

2013-09350/51 (dup) 30-40cm

lt brown med. grain sand, ~10% gravel and cobbles.

MW-06

No water sample collected as well was dry or frozen at time of sampling.

Soil

2013-09352 0-10cm

med grain med. brown sand, organics at surface.

2013-09353 30-40cm

Soil as above.

(7) LEVEL

14 Aug 2013

DAY 2: PIN-4: NHWL control

MW-07

Water

2013-09334* Blank-distilled water
collected through waterwa
tubing.

2013-09335 - Cloudy white, transparent.

Soil

2013-09354 0-10cm

Sandy clay, dark brown

2013-09355 (interlab) 30-40cm

Sandy clay, dark brown.

MW-08

Water

2013-09336 - Yellow/orange-ish, cloudy
but transparent

Soil

2013-09356 0-10cm

Lt brown / yellow, Fine to med. grain
sand. Layer of gravel at surface.

2013-09357/58 (Archive) 30-40cm

As above.

⑧

15 Aug 2013

DAY 3: PIN-4 Byron Bay

0958h - Overcast, 4°C, 12-15 Knots, E.

Kathryn Eagles, Mike Musclow, Jeff

Donald

Airstrip Landfill * Not to scale



P4-22



09359

09360/61 (dup)



Lobe B

P4-24



09364

09365 (interlab)

P4-23



09362

09363

⑨

LEVEL

15-Aug 2013

DAY 3: PIN-4-Airstrip Landfill cont'd

P4-22

2013-09359 0-10cm

Dark brown organic-rich loam ~20% gravel.

2013-09360/61 (dup) 30-40cm

Med. brown sandy loam ~20% gravel and cobble ~40% organics at surface.

P4-23

2013-09362- 0-10cm

Med. brown clayey loam ~20% gravel.

2013-09363- 30-40cm

Med. brown-grey loam w clay. Clay content increases gradually with depth.

P4-24

2013-09364 0-10cm

Med. brown organic-rich loam with ~15% gravel.

2013-09365 (interlab) 30-40cm

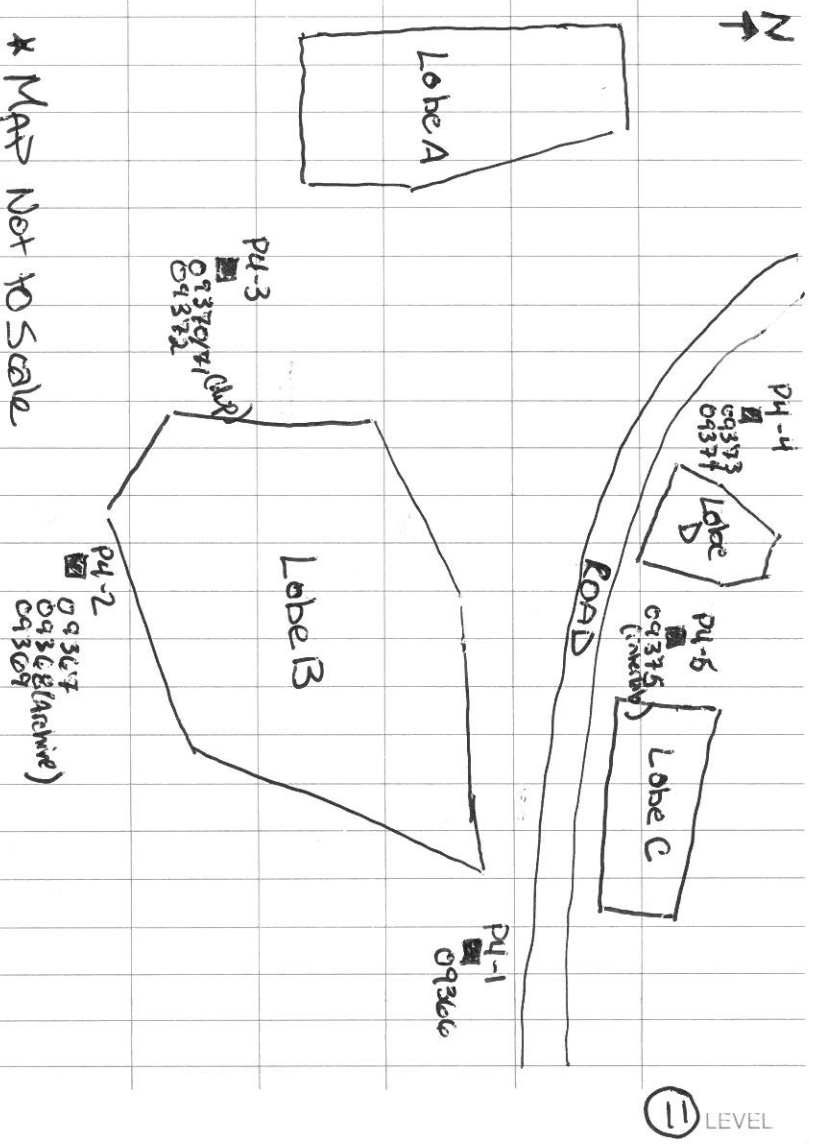
Grey clay with some med. grain sand.

15 Aug 2013

DAY 3: PIN-4 Northwest Landfill

This page should be read in Landscape

* Map Not to Scale



15 Aug 2013

DAY 3: PIN-4 Northwest Landfill cont'd

1125h

P4-01

No surface sample collected as no soil at surface, just cobble and boulder.

2013-09366 30-40cm

Med. brown sandy clayey soil ~60% gravel

P4-02

2013-09367/680-10cm (Archive)

Dark brown organic-rich clayey loam

2013-09369 30-40cm

Med. brown sandy loam

P4-03

2013-09370/71 (dup) 0-10cm

Dark brown organic-rich loam w/ ~50% gravel

2013-09372 30-40cm

Dark brown organic-rich loam w/ ~50% gravel

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DAY 3: Pin-4 Northwest Landfill cont'd

P4-04

2013-09373 0-10cm

lt brown / yellow sandy clay with ~30% gravel

2013-09374 30-40cm

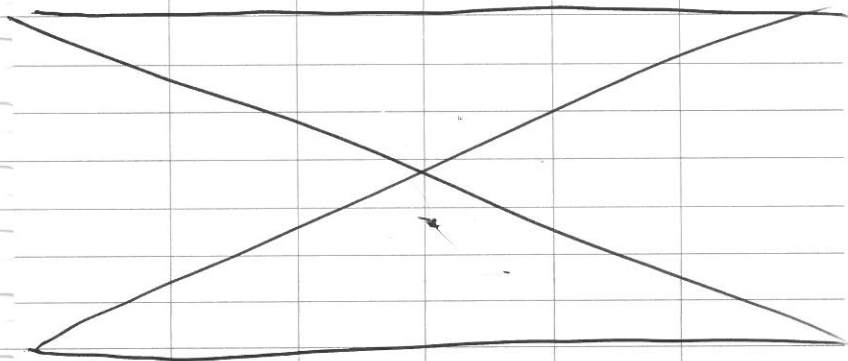
med brown-grey sandy clay with ~30% gravel

P4-05

No surface sample collected as no soil at surface; just cobble and boulder

2013-09375 (interlab) 30-40cm

lt grey med. grain sand and silt w/ ~60% gravel and cobble.



(13)

LEVEL

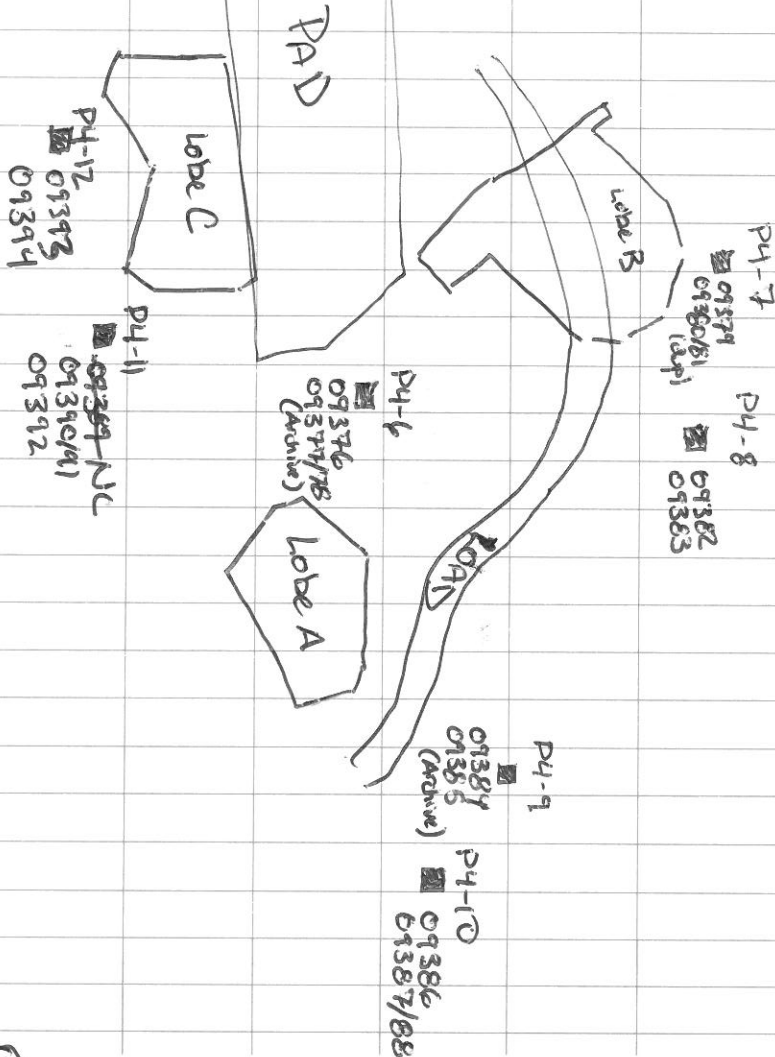
15 Aug 2013

DAY 3: PIN-4 North ~~West~~^{K2} Landfill

1405h

~~P4-06~~

Z →



(14)

15 Aug 2013

~~East~~
DAY 3: PIN-4 North West Landfill

P4-06

2013-09376 0-10cm

Dark brown sandy soil - med. grain,
~50% gravel

2013-09377/78 (Archive) 30-40cm

Dark brown sandy soil - med. grain,
~50% gravel.

P4-07

2013-09379 0-10cm

Med. brown clayey soil ~40% gravel

2013-09380/81 (dup) 30-40cm

Med. brown clayey loam w/ ~40%
gravel

P4-08

2013-09382 0-10cm

Lt brown sandy loam w/ ~20% gravel

2013-09383 30-40cm

Lt brown sandy loam w/ ~30%
gravel

15 Aug 2013

~~East NE~~
DAY 3: PIN-4 North ~~West~~ Landfill cont'd

P4-09

2013-09384- 0-10cm

lt brown loam w/ ~40% gravel

2013-09385 (interlab) 30-40cm

lt brown loam w/ ~40% gravel

P4-10

2013-09386 0-10cm

lt brown clayey loam w/ ~25%

gravel and cobble

2013-09387/88 30-40cm

* lt brown clayey loam w/ ~40%

gravel and cobble

P4-11

2013-09389 - Not collected; tag/whirlpak missing.

2013-09390/91 (dup) 0-10cm

Dark brown loam w/ ~20% gravel

2013-09392 30-40cm

Dark brown loam w/ ~35% gravel

15 Aug 2013

~~East KS~~

Day 3: PIN-4 North ~~test~~ Landfill Cont'd

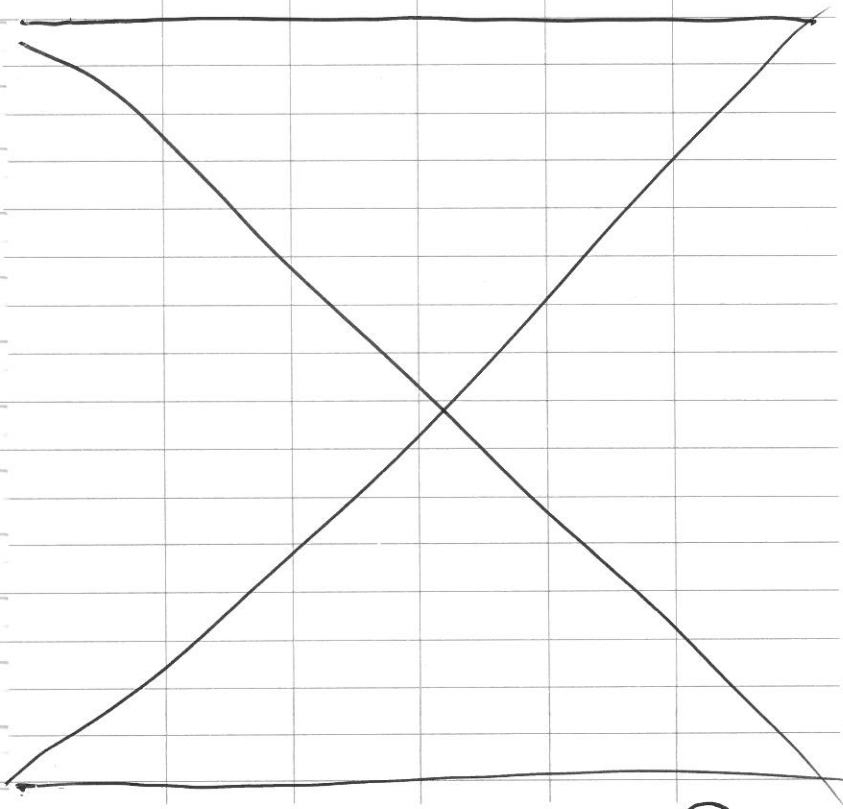
P4-12

2013-09393 0-10cm

Dark brown organic-rich loam w/
~40% gravel.

2013-09394 30-40cm

Dark brown organic-rich loam w/
~40% gravel



(17) LEVEL

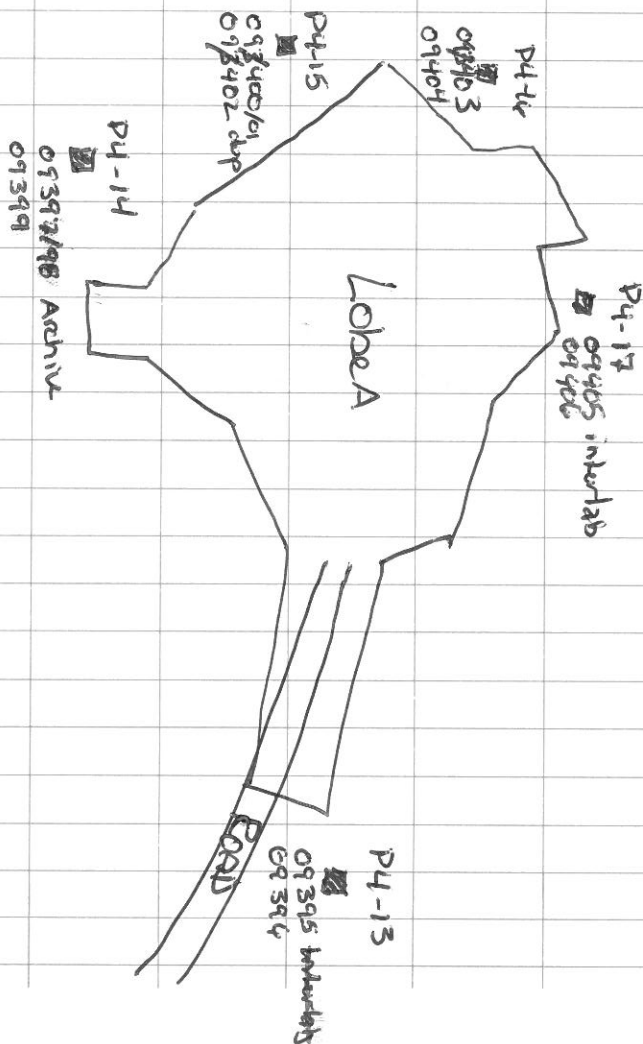
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Area KE

DAY 3: PIN-4 Station ~~Area~~ Landfill

1637h

→ Z



(18)

15 Aug 2013

Area ~~KS~~ ^{KS}
DAY 3: PIN-4 Station ~~State~~ Landfill Cont'd

~~P4-12~~

* Appears this sample not shipped KE

P4-13

2013-09395 (interlab) 0-10cm

Lt brown sandy loam ~ 30% gravel

2013-09396

Lt brown sandy loam ~ 30% gravel

P4-14

2013-09397/98 (Archive) 0-10cm

Med. brown sandy loam w/ ~ 60%
gravel and cobbles

2013-09399 30-40cm

Med. brown sandy loam w/ ~ 60%
gravel, cobbles and boulders

P4-15

2013-09400/01 (dup) 0-10cm

Lt brown sandy loam w/ ~ 60% gravel

2013-09402 30-40cm

Lt brown sandy loam w/ ~ 30% gravel

(19)

LEVEL

15 Aug 2013

Area ~~14~~

DAY 3: PIN-4 Station Main LF Cont'd

P4-16

2013-09403 0-10cm

Med brown clayey loam w/ ~ 20% gravel.

2013-09404 30-40cm

Med brown clayey loam w/ ~ 10% gravel.

P4-17

2013-09405 (interlab) 0-10cm

Lt brown sandy loam w/ ~ 60% gravel

2013-09406 30-40cm

Lt brown sandy loam w/ ~ 30% gravel.

(20)

15 Aug 2015

DAY 3: PIN-4 USAF Landfill

~~PIN~~ 1823h

P4-18

(Archive)

2013-09407/08 0-10cm

Lt brown-grey sandy silt w/ ~30%
cobbles and boulders

2013-09409 30-40cm

Lt brown-grey sandy silt w/ ~30%
cobbles and boulders

P4-19

2013-09410/11 (dup) 0-10cm

Silt Lt brown-grey sandy silt, large
cobbles + boulders ~ 30%.

2013-09412 30-40cm

Lt brown-grey sandy silt, w/ ~30%
large cobbles + gravel.

P4-20

2013-09413 0-10cm

Lt brown sandy loam w/ ~30% cobbles

2013-09414 30-40cm

Lt brown sandy loam w/ ~30% cobbles

15 Aug 2013

Day 3: PIN-4 USAF LANDFILL cont'd

P4-21

2013-09415 (interlab) 0-10cm

Lt brown sandy loam, some cobbles and boulders.

2013-09416 30-40cm

Lt brown sandy loam, some cobbles and boulders.

MAP: USAF LANDFILL * Not to scale

N
↑

