

**APPENDIX CRW**

**Recent minutes of Kings Cliffe Liaison Group**

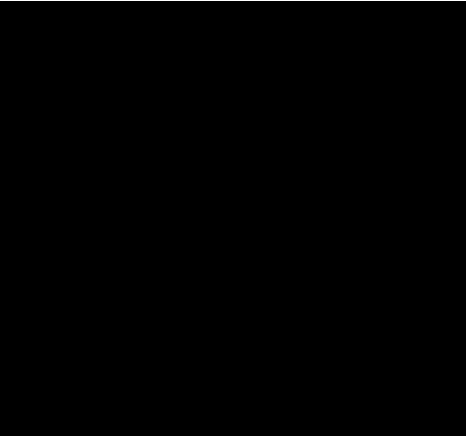
***PINS project reference: WS010005***

**PINS document reference: 4.2.23**

# King's Cliffe Local Liaison Group Meeting

20<sup>th</sup> January 2016

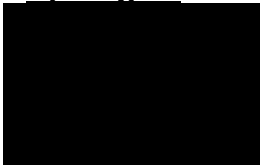
## Present



## Representing

Northamptonshire County Council (NCC)  
Jennings Nicholson Associates (for Augean)  
Augean  
Thomas Murrie Tixover Parish Council  
Environment Agency  
Environment Agency  
Augean  
King's Cliffe Parish Council  
Councillor (NCC – Prebendal)  
Collyweston Parish Council

## 1 Apologies



- Kings Cliffe Parish Council
- Collyweston Parish Council
- East Northants Council

## 2 Operators Update

- 2.1 SM** The site had a busy end of year. 3k tones of LLW in 2015 equivalent of about £15K for the community fund. Phase 2b has been capped covering an area of 12.000<sub>M2</sub>. Also a bit of Phase 5a has been capped
- 2.2** The Engineering for phase 6a will be undertaken in Summer/Autumn this year and then the stockpiled soils will be spread.
- 2.3** There has been changes to landfill tax/relating to soil disposal and therefore, Augean are considering a soil washing plant. This was previously permitted but not implemented.
- 2.4** A Section 278 Highways Agreement is required relating to the access improvements and this is slow at being completed but hope to complete this in this years 2<sup>nd</sup> quarter works. Planning to move the weighbridge nearer to the wheel wash to allow more room for vehicles queuing and to enable close observation of the wheel wash
- 2.5** Phase 6 is due to start. Augean now have the permits to engineer this phase. Work will continue in Phase 5b until June 2016.

**2.6** Leachate levels are in accordance with the levels specified in the permit and have been since, about June 2015.

Chlorine levels have reduced. One borehole was compliant and another on downward progression in terms of levels

**2.7 GW** Nuclear decommissioning programme has been quite slow in the last year. The NDA is responsible for this

3 Permit variations: 2 have been approved relating to

- Soil treatment Plant
- Hazardous waste landfill

The LLW permit variations are still being progressed.

**2.8** At Thornough landfill site. The application for dealing with legacy waste was approved and now has a permit. The waste will be placed into new cells to be engineered. There has been some assessment of the wastes with the Environment Agency and GW felt they may be able to recycle some soils and hardcore.

**2.9 KB** Lots of trial pits show much of the materials is fairly easy to recycle.

**2.10 GW** The Open Day at ENMRF was held in October 2015. There was a good turn out of local people. Approximately 40 people attended.

**2.11 CL** Asked about radium 226 and whether this required an extra depth of cover/soils as capping materials.

**2.12 GW** We will place it at least 5m below the surface level. Augean have to make sure that LLW waste imports are below the maximum amount level permitted.

**2.13 RM** Commented that overall the aim was to move towards average concentrations but as radium can potentially have a higher concentration in small zones the idea is to add in an extra safety measure by burying it at least 5m below surface. These are currently suggestions by Augean which the EA is considering.

### **3 Environment Agency Update**

**3.1 RM** Independent environmental monitoring was completed last year but at a lower scope. 5 borehole water samples plus the Spring & Willow Brooke were monitored. The Plan is to continue this in the future but Augean will pay for it.

It is commissioned by the EA and is fully independent but paid for by Augean.

**3.2** This monitoring process is more limited than in previous years (doesn't include soils) but targets the key water indicators. The LLW Permit is still being

assessed, due to be issued on 1<sup>st</sup> March unless more information is required. Some further scenarios were tested. The people undertaking the assessment deal with nuclear power stations so it gets very technical/complex. This results in more clarity being required.

- 3.3 [REDACTED] (New Head of Functions has replaced Jo Mckewa) asked to visit Augean. She was impressed by the company's control, vision etc.
- 3.4 **HS** Continued monitoring is important.
- 3.5 **SM** Staff have badges/monitors which are worn whenever dealing with LLW and these are sent to Public Health England. Analysis shows no exposure on staff.
- 3.6 **KB** Commented on the hazardous waste permit for the extension area. This includes new parameters on leachate levels from 1 or 2m to 5m. This is to enable more leachate to be used by the soil treatment plant. It only applies during the operation phase and not after restoration.

The Engineering standard is now higher due to 2m of in situ clay to be left at the base and engineered clay of 1m will be placed on top, plus the plastic membrane.

Elevated chloride levels in boreholes were found last time. We have more data now and it is found to be coming from upstream and is not related to the site. Possible sources are being investigated.

The Perimeter boreholes are not showing any landfill gas.

Hydrogeological risk assessment has been covered a part of the permit review.

#### 4 **Community Fund**

- 4.1 **HS** Working with landfill tax fund group and so HS is discussing requests for monies

with that committee. It was noted that King's Cliff Environmental Association has joined up with Thornough. This group is jointly making decisions. There is some confusion between the two funds. Currently 2 applications are going to the group at next meeting (next Monday).

(i) Stibbington Fund £5k (not ok) already had 5k

(ii) Easton-on-the-Hill £1,600 (ok).

Kings Cliff Active have a request but this can be held over until April.

Collyweston Playing Field – has requested a revenue fund of £1,100 pa for 5 years.

- 4.2 **GW** Confirmed he was happy to deal with the monies in this way.

**5 Any Other Business**

None

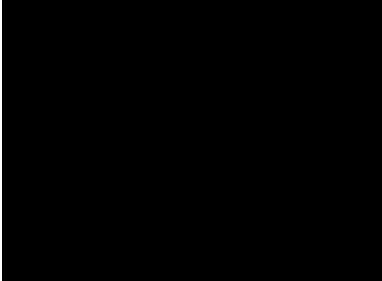
**6 Date of Next Meeting**

15 June 2016, at 2.00pm at Kings Cliffe Memorial Hall

# King's Cliffe Local Liaison Group Meeting

15<sup>th</sup> June 2016

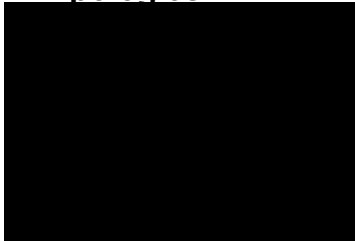
## Present



## Representing

Northamptonshire County Council (NCC)  
Northamptonshire County Council (NCC)  
Augean  
Environment Agency  
Augean  
King's Cliffe Parish Council  
Collyweston Parish Council

## 1 Apologies



Environment Agency  
King's Cliffe Parish Council  
Jennings Nicholson Associates (for Augean)  
Collyweston Parish Council  
Environment Agency

## 2 Operators Update

- 2.1 **SM** Leachate levels are now in compliance and have been all year. Lots happening on site.
- 2.2 Soil washing plant is in, and in the hot commissioning phase. This was previously used at the Olympic Site. 150 tonnes was put through the plant last week to test it. It will do 50 tonnes washing per hour and 100 tonnes per hour for dry screening. The process creates hardcore materials at different sizes. The water treatment flocculates the material to separate the fine materials and a filter cake is the result. This has to be tested to see if it is contaminated. If it isn't hazardous it can go off site to Thornaugh.
- 2.3 The water will filter much of the contaminants and this can be put through the stabilisation plant to make it stable.
- 2.4 **SM** The standards of decontamination achieved by Augean are top quality.
- 2.5 **PW** Are other systems used by other waste recycling companies?
- 2.6 **RM** Yes but they have to obtain an environmental permit so they are brought to an acceptable standard.
- 2.7 **SM** Engineering of Phase 6a is being undertaken and there is stockpiling of materials in Phase 5 along the eastern edge of Phase 5a. This is temporary.

The concrete pad at the soil treatment area has been extended in size as approved under planning.

The contract for the access widening works has been let under a 'minor works' contract issued by the Highway Authority. The weighbridge is to be moved.

- 2.8 **GW** There is very little LLW coming into the site. Partly due to change in the contractor undertaking the decommissioning and cuts in budget. The environmental permit has been updated.
- 2.9 **GW** Augean has acquired Colt Industrial Services (who clean tanks etc). This increases staff by 100 people to about 400. Colt are based in Hull.
- 2.10 **GW** Only received about 500 tonnes of LLW. This could mean that expectation of the amount of monies for the community fund this year need to be reduced.

### 3 **Environment Agency Update**

- 3.1 LLW throughput reduced significantly. **RM** carried out inspection last week in relation to the new permit which changed some of the process/procedures. Minor changes were recommended. The main checks on LLW were on the units of radionuclii to make sure these are robust. There was agreement reached on operating under the permit.

A 'Compliance Matrix' listing measure to comply with the permit was also assessed.

The groundwater monitoring report for last year has not yet been published but the outcomes are fine. The Horwater spring in Kings Cliffe was clean.

Further monitoring will be reviewed later this year.

- 3.2 **PW** Asked for an update on Radium concentrations? This was discussed at the last meeting.
- 3.3 **RM** Radium concentrations on a consignment have to be overall 200 bequerels per gram but there may be higher concentrations in small zones within the waste. Hence the permit requires these to be buried at least 5m below the surface.
- 3.4 **CL** Was concerned that some of the LLW waste would be above 200 bequerels. There was discussion around this point.

**RM** Explained that there could be tiny concentration above this but it was still LLW and the requirement to bury it at least 5m depth was an extra precaution.

**GW** commented that it had always been made clear what the nature of the LLW waste would be and it had been discussed in the past.

- 3.5 **RM** Reported on behalf of KB.

1. Augean are constructing a soil washing plant on the pad at the Soil Treatment Plant. We inspected the works on 11 May, good progress was being made. We had no concerns with the process equipment being installed but we will re-visit during commissioning to assess its performance and environmental controls.
2. Monitoring results for the landfill reported for the first quarter of 2016 are compliant with the permit limits and restrictions. Leachate are acceptable though two older leachate wells are partially blocked and will be reinstated. There continues to be elevated chloride levels in upstream ground water boreholes indicating an offsite source of minor, localised contamination probably from the former MOD area. We will keep this under review.
3. Monitoring results for the Horse Water Spring in Kings Cliffe village continue to show the water to be of a very good quality.
4. We've accepted and agreed the design and the Construction Quality Assurance (CQA) procedures for the next landfill cell which is Phase 6.

**3.6 SM** Hazardous waste input amounts are as normal.

#### **4 Community Fund**

**4.1 HS** The fund is now being managed through Grantscape and Kings Cliffe Environmental Association.

**4.2 FC** Asked how people are elected onto the Association as there is a perception it is only Kings Cliffe representatives. It would seem appropriate to have an open committee and change members from time to time. Has it got a constitution?

**4.3 GW** Will raise the question of membership with Grantscape.

#### **5 Any Other Business**

None

#### **6 Date of Next Meeting**

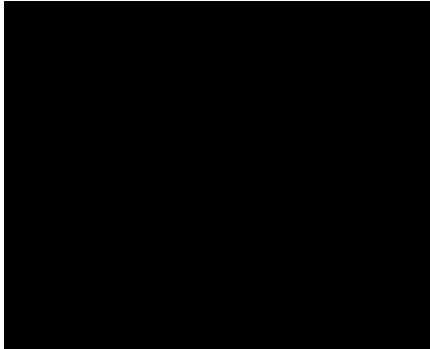
18<sup>th</sup> January 2017



# King's Cliffe Local Liaison Group Meeting

18<sup>th</sup> January 2017

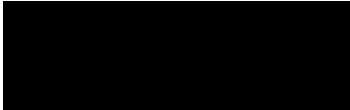
## Present



## Representing

Northamptonshire County Council (NCC)  
County Councillor (NCC – Prebendal)  
Jennings Nicholson Associates (for Augean)  
Environment Agency  
Augean  
Augean  
King's Cliffe Parish Council  
Collyweston Parish Council

### 1 Apologies



Environment Agency  
East Northants Council

### 2 Operators Update

**SM** - Soil washing – Now 5 months into the 6 months trial.

The plant has operated for 151 hours

Up to 400 tonnes per day is coming into the site and 80% of this is being processed in the soil treatment plant.

70% of the processed soil is non hazardous

30% is hazardous. This is mainly sand with lignite and this is potentially recoverable.

Sand is used in engineering as part of the protection layers.

Hardcore – can be used for hard surface works and if hard enough may be used for other engineering specifications.

**HS** - What percentage of hazardous waste is diverted?

**SM** - In trial it has been 30,000 tonnes. The future objective would be to put all soils through the plant.

About 20 – 30% of imports to site are soils

**KB** - Contamination is spread defiantly between the granular size bands.

## Engineering

**SM**- looking to build cell 6b this year.

**The** site entrance works to the entrance to be done. (the first contractor went bust !).

The weighbridge can be moved. Some of the clay is being moved to Thornaugh (15,000 tonnes) to be used for capping. The site entrance area can be seeded.

- 2.1 No contamination of chloride in the groundwater monitoring outside the site
- 2.2 **GW** 1.500 tonnes of LLW went in over the year when would be about £7.500. Currently forecasting slightly better from next year, but this may not be until late in the year.
- 2.3 Augean now has 450 employees 2 new Board Directors.

Stewart Davies the Augean Chief executive is now chairman of the Trade Association, the Environmental Services Association.

Augean are due to add new site at Dundee Port to the portfolio, linked to clean up of oil rigs. This site is a transfer station & also involves a decontamination activity.

**KB** There has been a history of chloride contamination to the north of the landfill site and this may be linked to previous activities by the MOD. Then some contamination south of the site were found, so it was not sure if it was just the movement through a pathway from beyond the site or the site itself.

The company did some preventative works in case it was from the site. Levels have dropped but so have those upstream to the north.

**KB/GW** - Restoration works timetable?

**GW** We will submit some timetable to EA shortly.

**SM** – We will do some initial capping this year and xxxx some overburden from 6b. Some of the clean soil from the washing plant can be used as cover. This will have some planting and grass cover.

**CL** - Will trees be planted on landfill area?

**SM** - Yes, there has been research on this and the tree roots stay shallow.

**KB** - Agreed and referred to sites he knows.

**KB** – Pleased to see the soil washing plant is being effective in recovering usable materials.

Elevated Chloride has now reduced and this is down to background levels.

The leachate levels in site are now allowed up to 5m rather than 2m. The permit says that when it gets to restoration closure phase it has to come down to 2m.

The leachate can be used in the soil treatment plant.

**CL** – What happens post closure?

**KB** – Contained monitoring until the site is safe and there is financial provision in bonds to cover this.

Horsewater Spring is monitored quarterly and this is fine.

KB will expect a design for cell 6b to be submitted to the EA for approval.

Augean hope to submit this by the end of Feb/Early March.

### **NCC Update**

M & WLP update.

### **Community Fund**

ENC seems to promote this fund wider than the appropriate area and these are not appropriate. Now had an application from Easton-on-the-Hill relating to playing fields and they are trying to improve facilities for youth coaching for cricket. They are also making a separate application for changing facilities etc.

£2,700 for improvements for cricket for nets and other equipment and playing and training equipment. They are applying for other equipment for things like screens and other equipment for £11,500

### **Any Other Business**

FC Membership of Entrust

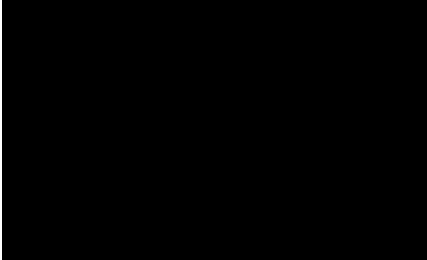
### **Date of next Meeting**

Wed 14<sup>th</sup> June 2017 at 2.00pm at Kings Cliffe Village Hall

# King's Cliffe Local Liaison Group Meeting

12<sup>th</sup> October 2018

## Present



## Representing

Northamptonshire County Council (NCC)  
Augean  
Environment Agency  
Augean  
Collyweston Parish Council  
Augean

## 1 Apologies



- Environment Agency
- King's Cliffe Parish Council

## 2 Operators Update

- 2.1 **GW** Augean had a complete restructure and have gone back to a "functional structure"
- 2.2 Jim Meredith – New CEO.
- 2.3 The Business is trading well.
- 2.4 **GW** Change to the Development Consent Order. It related to the volumes allowed into the treatment plant. The new limit for the treatment plant is 200,000 tpa. although the overall annual maximum of the soil 250,000 tpa. remains. This was dealt with by DCLG.
- 2.5 The Augean annual open day is tomorrow 13<sup>th</sup> October 2018.
- 2.6 **SM** Phase 6b is filled. Phase 6c has been engineered and started infilling. Phase 10 to be engineered by May 2019. This will give 140,000M<sup>3</sup> of void. The clay will be used to cap Phase 5a, 5b and 6.

6,182 tonnes of LLW has been deposited since January 2018. The previous year was 4,969 tonnes.

The soil washing plant is being used and this produces hardcore which currently isn't allowed to be used for haul roads, which bizarrely means they have to import this. In the future the aim will be to use hardcore from the washing plant but this will need a permit variation.

The permit compliance performance is good and the Environment Agency have been to site in the last two weeks.

### **3 Environment Agency Update**

#### **Hazardous Waste**

- 3.1 KB** We carried out the annual site inspections last week for the ENRMF landfill and for the soil treatment plant. Operations continue to be to a good standard and there were no actions set from this visit. Despite the dry summer, dust emissions on the landfill site and soil treatment plant are at acceptable level and are being managed effectively.
- The extension to the dredgings lagoon at the soil treatment plant has been constructed to a high standard and is now in use. We approved the engineering CQA plan for this prior to construction to ensure the design was to the necessary standard.
  - We have not received any complaints about site operations this year. In fact the last complaint was made in 2013.
  - We continue to review the environmental monitoring data on a quarterly basis. This comprises data from groundwater testing, landfill gas monitoring, dust monitoring, leachate levels and analysis of the leachate. Leachate levels across the site are generally low but the operator needs to remain vigilant as there are a few wells where levels are elevated. Groundwater quality remains good and there is no impact from the site on this. Data from dust monitoring is compliant with the permit levels and is generally low.
  - We are changing site officer, Adam Pawson will taking on the EPR compliance aspects of the site regulation and Kevin Burton will be the back-up.

#### **LLW**

- 3.2 RM** Visited the site with a landfill expert and NHS job experience officer. Checked how LLW is being managed. Reception through to final disposal. No concerns emerged.
- 3.3 RM** Feels that the competency of the staff is very good and had improved. Also considered it from a compliance perspective and how the customer defines and categorises the waste. It was felt that the standards applied at the site were best practice. Monitoring data shows no elevated levels of radioactivity. Information supplied by the Augean Independent consultant was appropriate and the Environment Agency has undertaken its own annual assessment to check, although this is at a lower level than when the development first started.
- 3.4 GW** The operatives wear monitoring badges and none of those have registered any radioactive readings so far.

3.5 **FC** Reported that she is not aware of any local concerns, but welcomed the offer by RM to come to speak at a Parish Council meeting if that would be useful.

3.5 **SM** End date for the site is 2026.

4. **NCC Update**

No matters to report.

5. **Community Fund**

5.1 4,969 tonnes of LLW deposited in 2017. This provided £24,845 for the Community Fund.

**FC** Difficulties in finding match funding often causes bigger projects to not progress when this is required for some grant funding schemes.

6. **Any Other Business**

None

7. **Date of Next Meeting**

September/October 2019