

Recommendations Made:

Graceland's actions:

- Relocate fuel bowser.
- Keep materials and tools off placed gas membranes to remove risk of damage.
- Notify TW/Hydrock of any significant contamination identified during groundworks.
- Survey stockpiles regularly to track volume of soils recovered. Volumetrics are required to progress MMP
- Continued silt management

Hydrock actions:

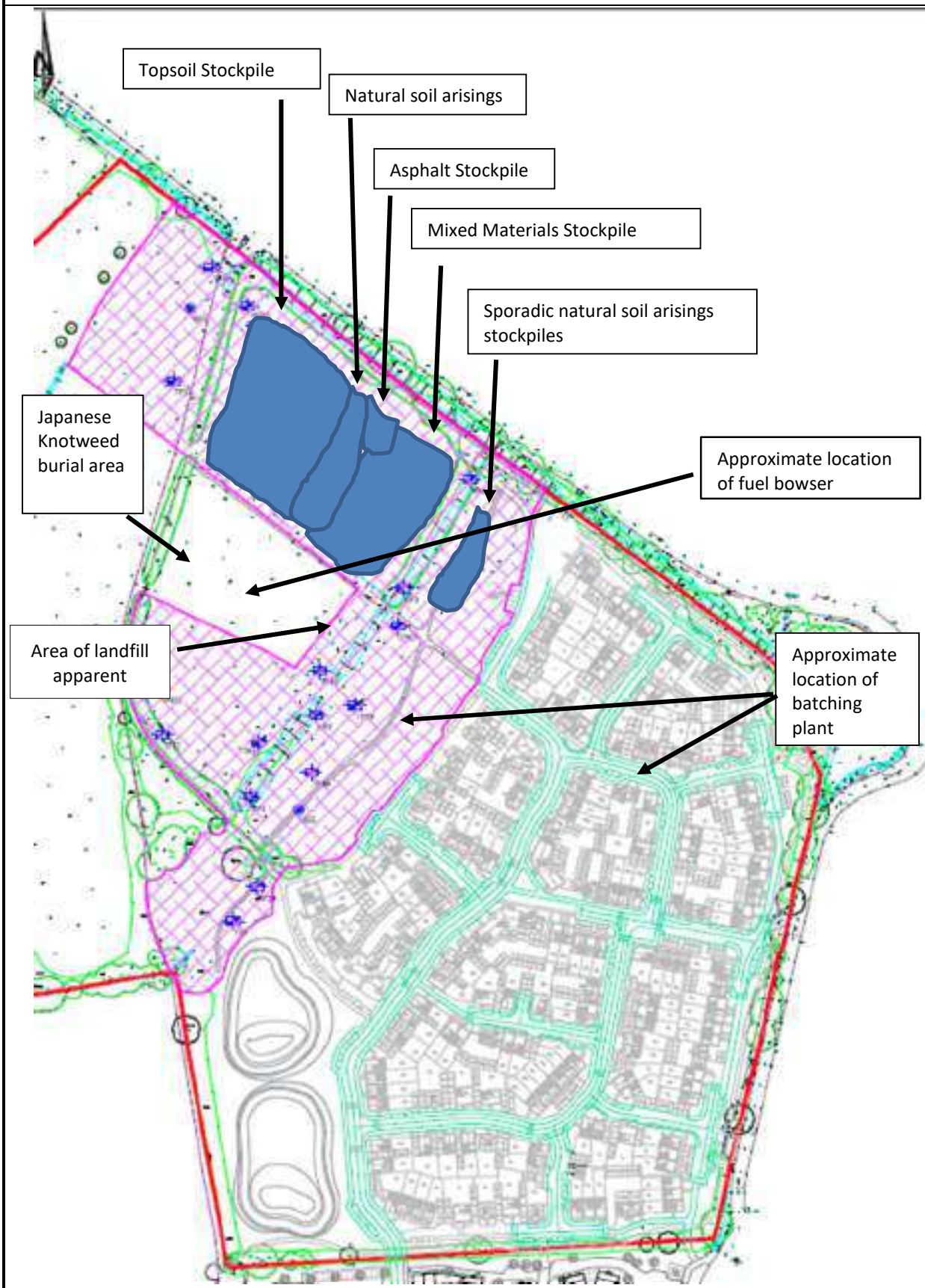
- Undertake regular watching brief visits.

Other Comments:

- Inspection of open excavations have not indicated the presence of any onerous materials excluding the existing area of infilling/landfilling between the japanese knotweed burial cell area and the Taylor Wimpey compound.
- Site conditions are generally damp.
- Gas membrane installations to date are in good condition.
- Batching plant also now present within Taylor Wimpey compound.

SITE VISIT REPORT

Sketch of works:



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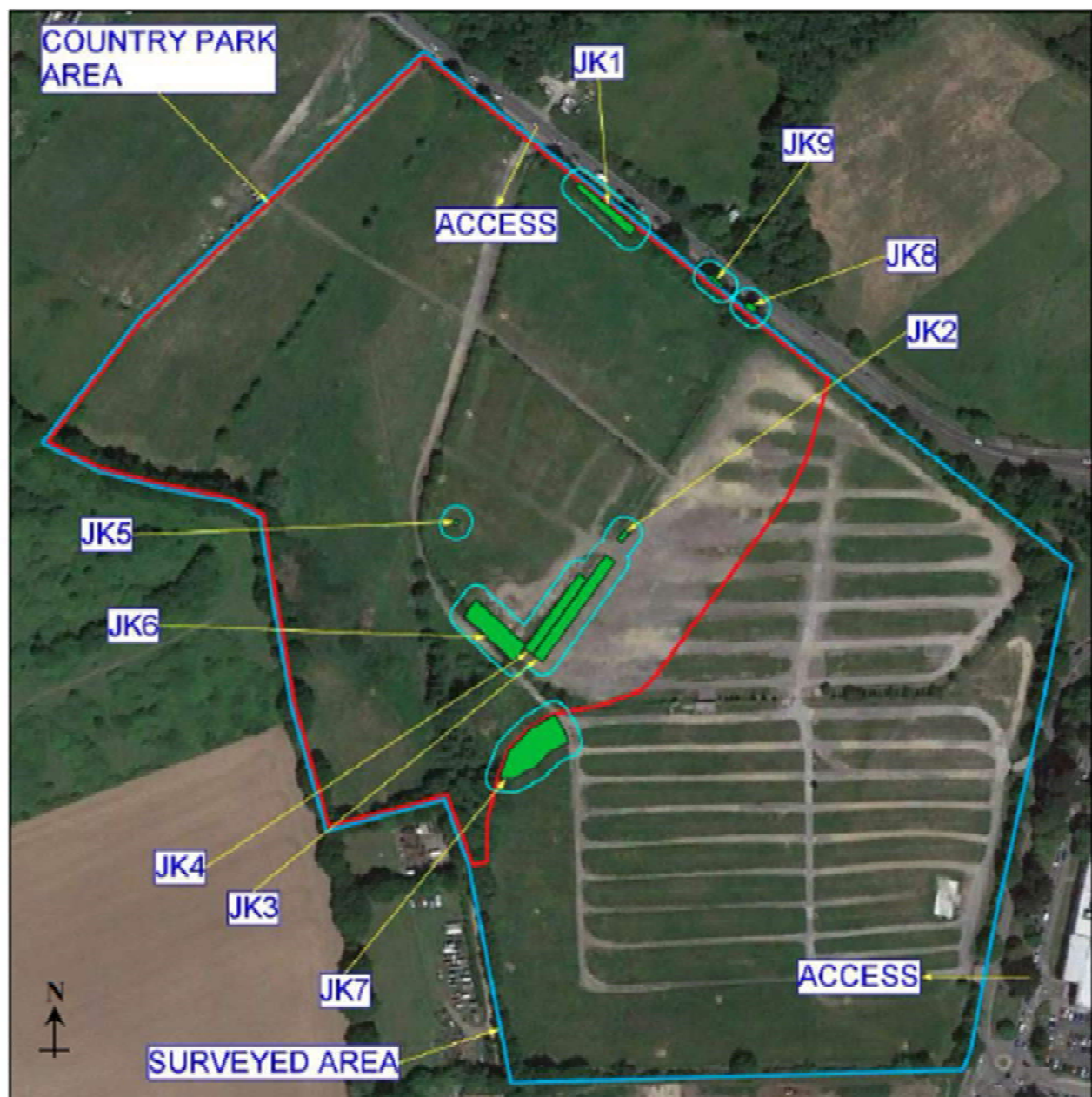
Japanese Knotweed areas:

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Image 1: Aerial Photograph of proposed site layout showing knotweed distribution



SITE VISIT REPORT



Photograph 1: Northern balancing lagoon



Photograph 2: Fuel bowser and rutting in knotweed burial pit area

SITE VISIT REPORT



Photograph 3: View toward Taylor Wimpey Compound and parking area



Photograph 4: View into stream, waters are clear and not silted.

SITE VISIT REPORT



Photograph 5: Ongoing stockpiling of soils with anthropogenic contents



Photograph 6: View of Taylor Wimpey compound, parking in foreground and batching plant present.

SITE VISIT REPORT



Photograph 7: Stockpiling materials and completion of Taylor Wimpey compound area



Photograph 8: Various materials within large stockpile area

SITE VISIT REPORT

Project: Kestrel Park, Bursledon

Date: 06/02/2019

Client: Taylor Wimpey UK Ltd (Southern Counties)

Weather: Overcast, cool

Contract No.: C-08162-C

Engineer: Andrew James

Persons Present:

Hydrock – Andrew James

Taylor Wimpey – Anthony Shearing

Gracelands – Mike (foreman)

NB it is understood Gracelands Chris Nicholls (former site manager) is on long term leave and no longer overseeing the site works.

Summary of Work Activities:

- Groundworks ongoing by Gracelands.
- Site strip completed.
- Attenuation basins fully excavated.
- Taylor Wimpey compound now set up, split into Kestrel Park North and South.

Comments/Discussion:

Stockpiles have continued to be amalgamated in the main stockpile area. Mixed / “muckaway” stockpile has merged into natural arisings stockpile at centre, which has also merged into topsoil stockpile. Various loads of waste materials deposited across the mixed stockpile in several areas.

Surplus arisings won from the Japanese Knotweed deep burial cell now almost used up. Stockpile reduced in area and height.

Gracelands have created a “borrow pit” located south of knotweed burial cell (~10m) to win sand and gravel to make up levels around plots. It is understood this was done because it was felt more material was needed to make up levels and stockpiled materials had been compromised by becoming mixed. Area was fenced off and no excavation undertaken during site visit. Hydrock advised Gracelands to stop works immediately and not excavate further.

Asbestos impacted stockpile remains on site from Japanese Knotweed remediation works. It is understood this is to be disposed off-site.

Inspected stream on site, waters continue to appear clear of any impact from site activities.

Recommendations Made:

- Asbestos impacted soils should be disposed off-site.
- Excavation works for the new borrow pit must be halted and no further excavation undertaken.
- Any materials to be reused on site should be won from the main stockpile of drainage basin, road construction and foundation excavation arisings.
- Surveying of the existing stockpiles must be done on a regular basis to provide tracking data for materials management.
- Site meeting to be held between TW, Gracelands and Hydrock to determine way forward with materials management.

Other Comments:

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Sketch of works:



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Japanese Knotweed areas:

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Image 1: Aerial Photograph of proposed site layout showing knotweed distribution



SITE VISIT REPORT



Photograph 1: topsoil stockpile



Photograph 2: Stockpile area showing no clear segregation between topsoil (left), sand/gravel arisings (centre) or "muckaway" (right).

SITE VISIT REPORT



Photograph 3: view looking north across stockpile area (left)



Photograph 4: surplus arisings from knotweed burial cell excavation

SITE VISIT REPORT



Photograph 5: sporadic natural soil arisings and imported materials stockpiles



Photograph 6: new borrow pit excavation

SITE VISIT REPORT



Photograph 7: asbestos impacted soils awaiting disposal off-site



Photograph 8: view into stream, waters are clear and not silted

SITE VISIT REPORT

Project: Kestrel Park, Bursledon	Date: 13/02/2019
Client: Taylor Wimpey UK Ltd (Southern Counties)	Weather: Cold, dry, part cloudy
Contract No.: C-08162-C	Engineer: Andrew James

Persons Present:

Hydrock – Andrew James
 Taylor Wimpey – Dave Lawrence
 Gracelands – Dave Downie

Summary of Work Activities:

- Groundworks ongoing by Gracelands – drainage works to be completed, plus last section of road and around 12 plot foundations.
- Site strip completed.
- Attenuation basins fully excavated.
- Taylor Wimpey compound now set up, split into Kestrel Park North and South.
- Taylor Wimpey progressing with general construction works.

Comments/Discussion:

Stockpiled materials continue to comprise 3 stockpiles, although no clear segregation has been carried out. The stockpiles comprise: topsoil, a small portion of wet sand/gravel and mixed soils. It is understood the subsoils stored in this area have been determined not suitable for reuse as part of construction works due to being too wet, however are considered suitable for use as general backfill within the capping layer.

The additional “borrow pit” located south of knotweed burial cell (~10m) excavated by Gracelands to win sand and gravel has not increased in size and activities halted as discussed at the last site meeting.

It is understood a culvert was removed as part of the Japanese Knotweed remediation works, this will be reinstated.

Surplus arisings won from the Japanese Knotweed deep burial cell now almost used up (sand and gravel).

Asbestos impacted stockpile remains on site from Japanese Knotweed remediation works. It is understood this is to be disposed off-site.

Inspected stream on site, waters continue to appear clear of any impact from site activities.

Recommendations Made:

- Asbestos impacted soils should be disposed off-site, Gracelands to arrange.
- The new borrow pit is to be backfilled with the wet sand and gravel currently adjacent to the topsoil stockpile. This material will emulate the materials removed via the borrow pit and therefore reinstate this area.
- Any materials to be reused on site should be won from the main stockpile of drainage basin, road construction and foundation excavation arisings.
- Surveying of the existing stockpiles must be done on a regular basis to provide tracking data for materials management – Gracelands to arrange detailed survey next week.
- Site survey to be carried out of country park area to ensure existing levels data is up to date.
- Hydrock to provide Gracelands with copy of remedial strategy and site plan showing extent of area for capping as part of the remediation works.
- Taylor Wimpey to provide details on final proposed levels at the site including details of landscaping bunds.
- Prior to construction of capping layer within country park (former landfill) area, the stockpiled clean subsoils should be inspected to remove anthropogenic components as far as practical. The area of asphalt stockpiled to the rear of the mixed stockpile should be removed and disposed off-site.

Other Comments:

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Sketch of works:



SITE VISIT REPORT

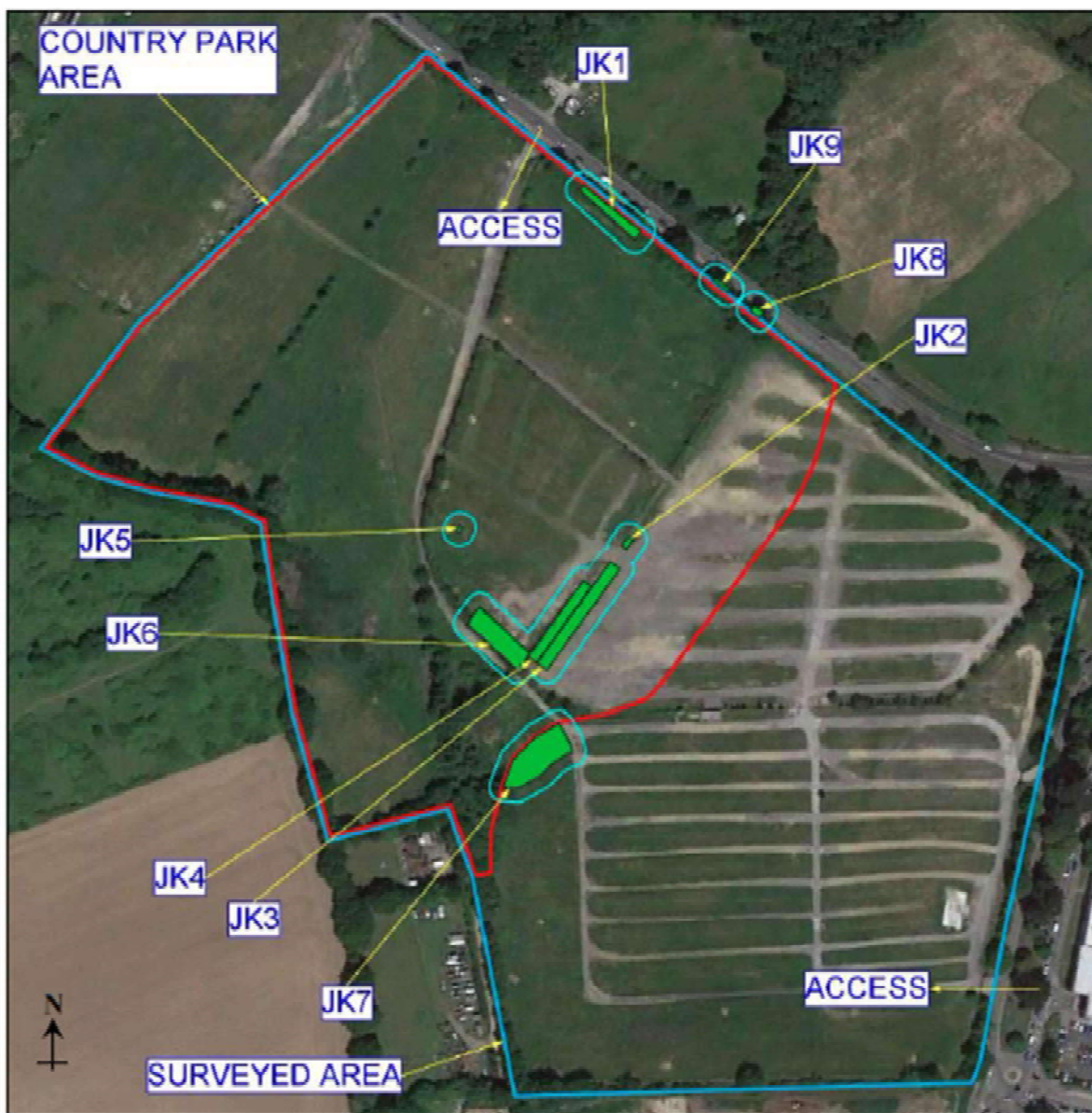
Japanese Knotweed areas:

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Image 1: Aerial Photograph of proposed site layout showing knotweed distribution



SITE VISIT REPORT



Photograph 1: View looking north towards topsoil stockpile



Photograph 2: Sand and gravel stockpiled south east of topsoil stockpile

SITE VISIT REPORT



Photograph 3: mixed stockpile further south east of topsoil stockpile



Photograph 4: anthropogenic waste materials placed on mixed stockpile

SITE VISIT REPORT



Photograph 5: “borrow pit” excavation



Photograph 6: asbestos impacted soils remain on site following completion of knotweed remediation

SITE VISIT REPORT



Photograph 7: view looking south west at stream running through site, waters are clear and not silted

SITE VISIT REPORT

Project: Kestrel Park, Bursledon

Date: 20/03/2019

Client: Taylor Wimpey UK Ltd (Southern Counties)

Weather: Overcast

Contract No.: C-08162-C

Engineer: Myfanwy Wood

Persons Present:

Hydrock – Myfanwy Wood

Summary of Work Activities:

- Taylor Wimpey progressing with general construction works.
- NEA progressing with gas membrane installation.

Comments/Discussion:

Two main areas for stockpiling. The material from the first area, directly behind the Japanese Knotweed deep cell burial area, is almost fully utilised. New sediment has been brought in and separate into several piles.

A new "borrow pit" located north of the asbestos and soil stockpile has been excavated by Gracelands. Pit size is approximately 10 x 8m and 3m deep. Hydrock has previously stated that these activities are unregulated and not permitted on site.

Asbestos impacted stockpile remains on site from Japanese Knotweed remediation works. It is understood this is to be disposed off-site.

Inspected stream on site, waters continue to appear clear of any impact from site activities.

Many areas where anthropogenic waste has been placed on top of stockpiled natural soils.

Recommendations Made:

- Excavation of the new "borrow pit" must stop after being previously advised to not dig any more of these.
- Topographic surveying of all stockpiles to be undertaken regularly.
- Stockpiles should be appropriately managed to ensure retention of good quality materials for reuse.
- Prior to placement of capping layer, high visibility geotextile marker layer must be placed.

Other Comments:

SITE VISIT REPORT

Sketch of works:



SITE VISIT REPORT

Japanese Knotweed areas:

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Image 1: Aerial Photograph of proposed site layout showing knotweed distribution



SITE VISIT REPORT



Photograph 1: New stockpiles behind TW compound looking northwest



Photograph 2: Sand and gravel stockpiled behind the TW compound

SITE VISIT REPORT



Photograph 3: Topsoil stockpile being reused for capping



Photograph 4: anthropogenic waste materials remain placed on mixed stockpile

SITE VISIT REPORT



Photograph 5: "borrow pit" excavation



Photograph 6: asbestos impacted soils remain on site following completion of knotweed remediation

SITE VISIT REPORT



Photograph 7: view looking south west at stream running through site, waters are clear and not silted

SITE VISIT REPORT

Project: Kestrel Park, Bursledon

Date: 11/04/2019

Client: Taylor Wimpey UK Ltd (Southern Counties)

Weather: Overcast

Contract No.: C-08162-C

Engineer: David Pethica

Persons Present:

Hydrock – David Pethica

Summary of Work Activities:

- Taylor Wimpey progressing with general construction works.
- NEA progressing with gas membrane installation.

Comments/Discussion:

Stockpiles in the north west of the site are being used/taken for use in building up levels across the site. Stockpiled materials to the south of the Japanese Knotweed deep cell burial area, is almost fully utilised. Imported aggregate is present separate in several small stockpiles to the west of the Taylor Wimpey compound.

No borrow pits are noted to be present on the site.

Asbestos impacted stockpile remains on site from Japanese Knotweed remediation works. It is understood this is to be disposed off-site.

Inspected stream on site, waters continue to appear clear of any impact from site activities.

The site appears to be tidy and in good order.

Recommendations Made:

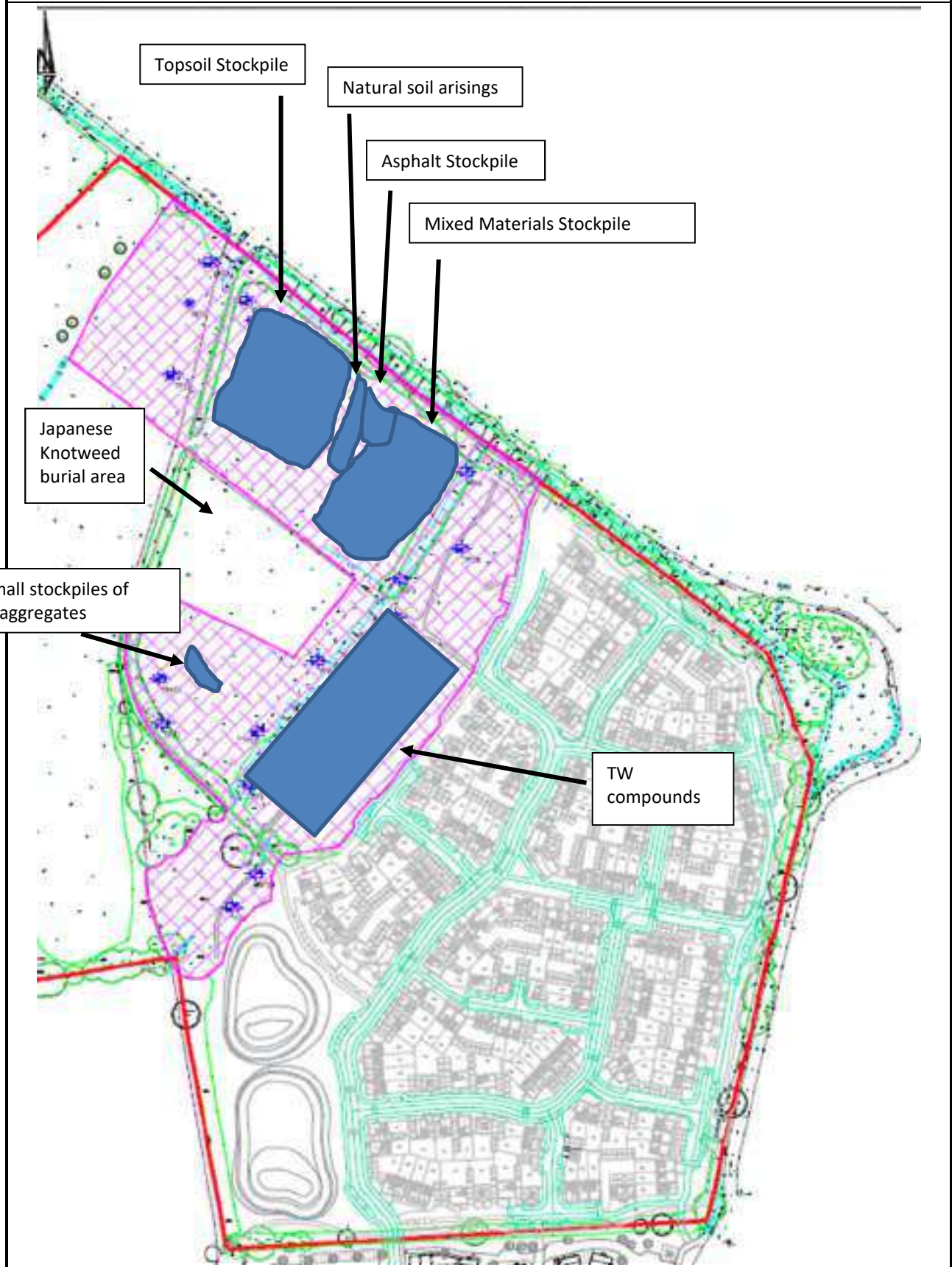
- Topographic surveying of all stockpiles to be undertaken regularly.
- Stockpiles should be appropriately managed to ensure retention of good quality materials for reuse.
- Prior to placement of capping layer, high visibility geotextile marker layer must be placed.

Other Comments:

- Materials are being stored on plots near the compound where screed has been placed. Whilst no detrimental effect to gas membranes is evident from the placement of these materials care should be taken in placing retrieving these items to ensure that exposed membrane is not damaged/compromised.

SITE VISIT REPORT

Sketch of works:



SITE VISIT REPORT

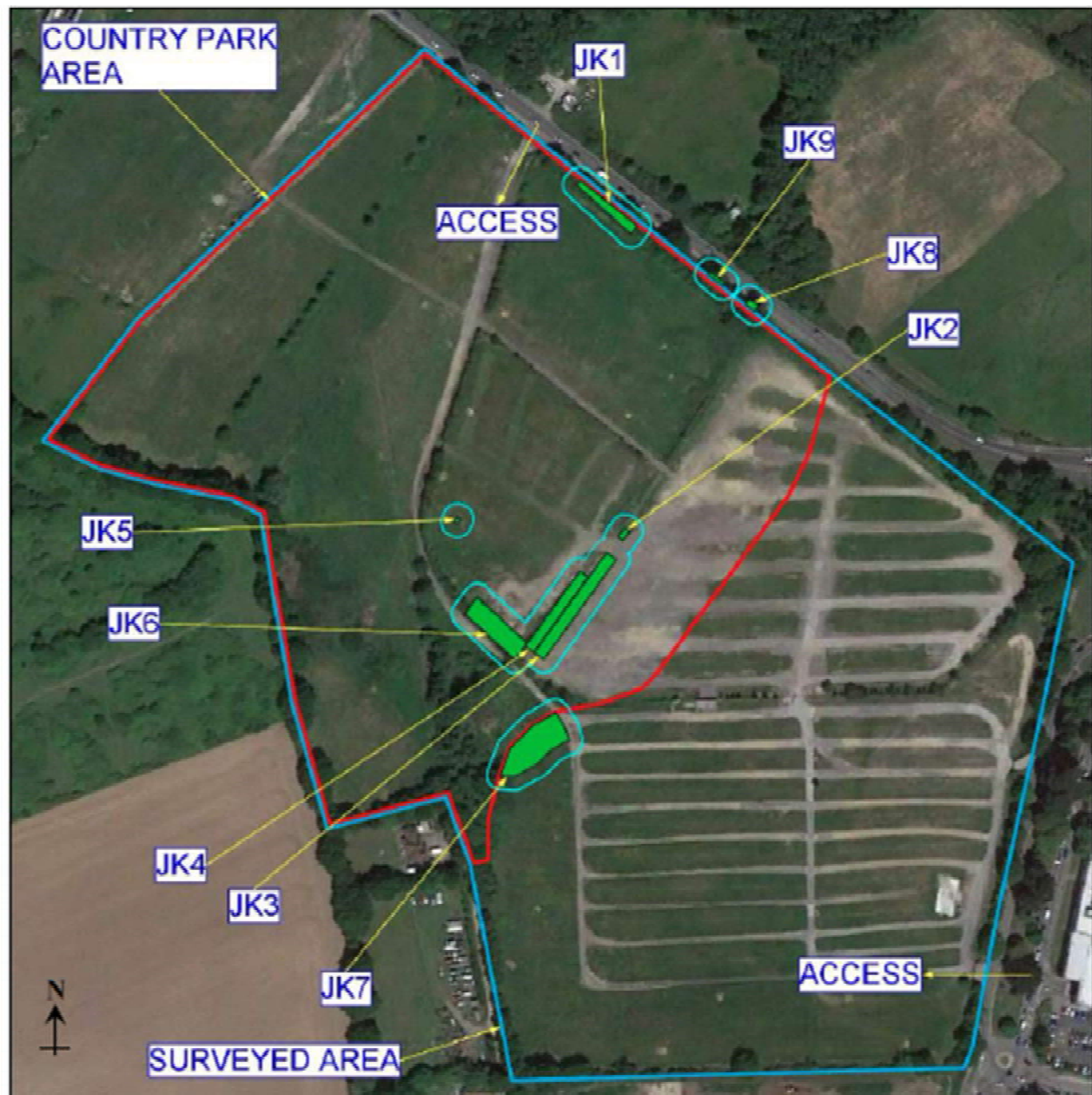
Japanese Knotweed areas:

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Image 1: Aerial Photograph of proposed site layout showing knotweed distribution



SITE VISIT REPORT



Photograph 1: Ongoing construction of houses, roadways are being wetted/cleaned for dust suppression



Photograph 2: View across site towards TW compound. Services are clearly identified

SITE VISIT REPORT



Photograph 3: Materials stored on plots where screed has been placed near site compound.



Photograph 4: Asbestos impacted materials fenced off and various aggregate stockpiles

SITE VISIT REPORT



Photograph 5: View looking west across Japanese Knotweed burial cell.



Photograph 6: View looking south west across Japanese Knotweed burial cell

SITE VISIT REPORT



Photograph 7: Stockpiled materials being used. Stockpile at eastern end of stockpile area in north west of the site



Photograph 8: Western end of stockpile area in north west of the site.

SITE VISIT REPORT

Project: Kestrel Park, Bursledon	Date: 29/04/2019
Client: Taylor Wimpey UK Ltd (Southern Counties)	Weather: Sunny spells
Contract No.: C-08162-C	Engineer: David Pethica

Persons Present:

Hydrock – David Pethica
Gracelands – Chris Nichols

Summary of Work Activities:

- Taylor Wimpey progressing with general construction works.
- Screening of stockpiled topsoil ongoing

Comments/Discussion:

Stockpiles in the north west of the site are being used/taken for use in building up levels across the site. Within this stockpile area discrete loads of bricks and general construction waste have been placed.

CN indicated that there are some concerns over quantities of materials that will remain required for capping and that the spine road is to be completed and ready for use by the end of May to allow access to the Kingfisher development to the south of the site.

A stockpile of imported crush material is present to the north of the Taylor Wimpey compound, this is being placed in various areas across the site in areas to be surfaced.

Imported aggregate is present separate in several small stockpiles to the west of the Taylor Wimpey compound.

An access track has been constructed to the west of the Taylor Wimpey compound, comprising crushed brick and block.

Asbestos impacted stockpile from Japanese Knotweed remediation works is no longer present on site.

Inspected stream on site, waters continue to appear clear of any impact from site activities. Additional bales have been placed to intercept silt.

The site access road is noted to be failing places and has locally been repaired.

The site appears to be tidy and in good order.

Recommendations Made:

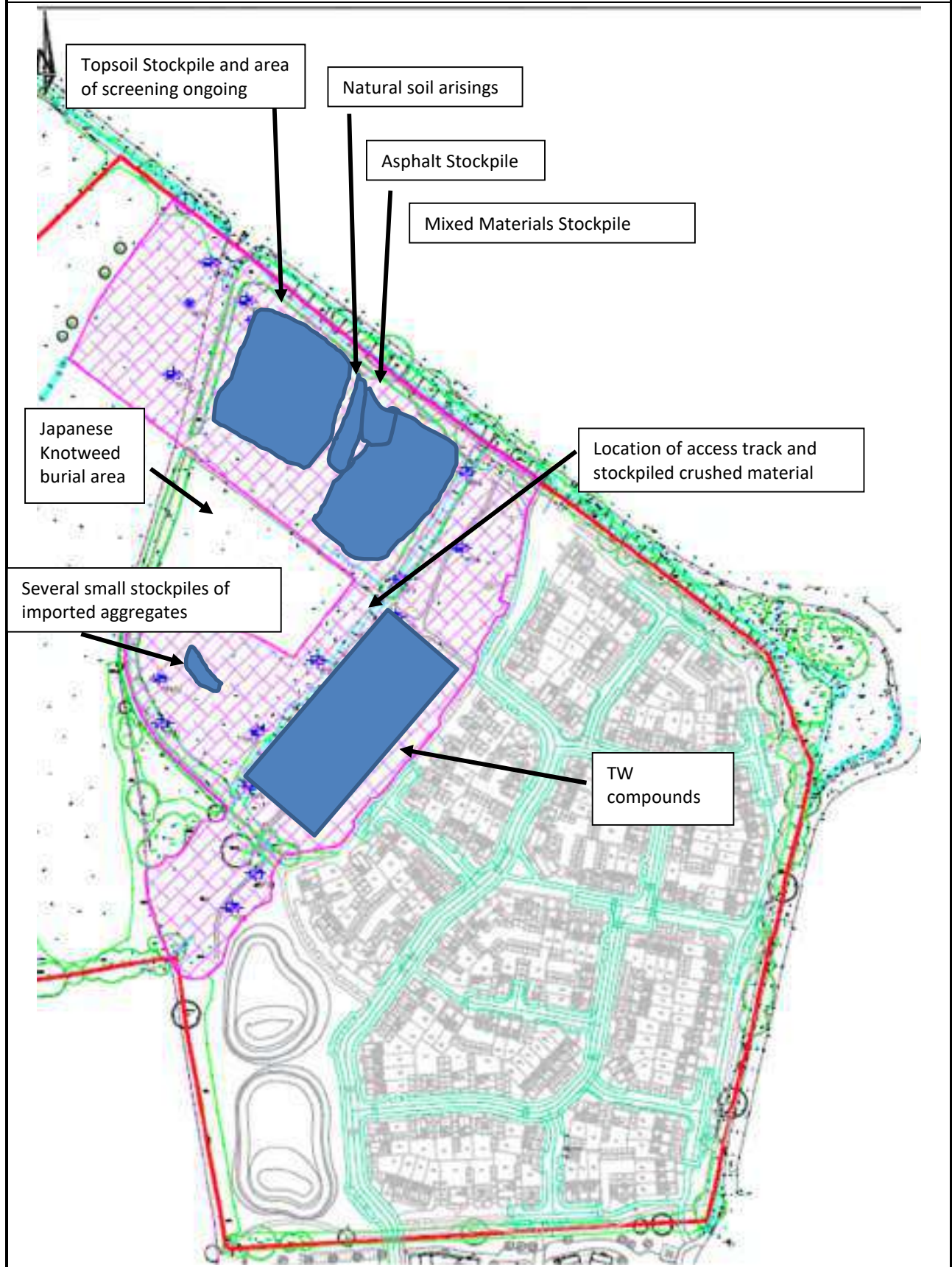
- Topographic surveying of all stockpiles to be undertaken regularly.
- Stockpiles should be appropriately managed to ensure retention of good quality materials for reuse.
- Prior to placement of capping layer, high visibility geotextile marker layer must be placed.

Other Comments:

Records of materials imported to the site should be maintained and efforts should be made to ensure that materials placed in the vicinity of stockpiles will not have a negative effect on stockpiled materials.

SITE VISIT REPORT

Sketch of works:



SITE VISIT REPORT

Japanese Knotweed areas:

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Image 1: Aerial Photograph of proposed site layout showing knotweed distribution



SITE VISIT REPORT



Photograph 1: Ongoing screening of Topsoil stockpiles



Photograph 2: Membrane evident beneath stockpile and screened Topsoil

SITE VISIT REPORT



Photograph 3: Membrane evident where natural soil arising stockpiles have been utilised



Photograph 4: Construction waste materials placed to the south of the topsoil stockpile

SITE VISIT REPORT



Photograph 5: View of utilised stockpiled materials



Photograph 6: Looking south toward the constructed access track

SITE VISIT REPORT



Photograph 7: Stockpiled imported crush material



Photograph 8: Placement of crush material on top of membrane in the south east of the site

SITE VISIT REPORT

Project: Kestrel Park, Bursledon

Date: 19/07/2019

Client: Taylor Wimpey UK Ltd (Southern Counties)

Weather: Mild, overcast, wet

Contract No.: C-08162-C

Engineer: David Pethica

Persons Present:

Hydrock – David Pethica

Taylor Wimpey – Anthony Geering

Summary of Work Activities:

- Taylor Wimpey progressing with general construction works.
- Topsoil has been placed in a number of areas including a number of residential plots.

Comments/Discussion:

Screening of Topsoil has been completed. Subsoil stockpiles appear to have been re-levelled. To the south of the main stockpiling area a stockpile of soils and bricks and a stockpile of damaged bricks and blocks are present. There are various other small stockpiles of various aggregates further south. Various construction materials including bricks and window units have also been stored across this area.

The parking area to the west of the Taylor Wimpey compound has been extended to accommodate contractors' vehicles.

Ongoing construction continues across the site with building works nearing completion in the west of the site and commencing from foundations in the east.

Surfacing of roads has occurred in various areas of the site.

Junction with Bursledon Road has been constructed and area to the west has had topsoil placed and show homes appear to be completed.

Inspected stream on site, waters continue to appear clear of any impact from site activities.

The site appears to be tidy and in good order.

Recommendations Made:

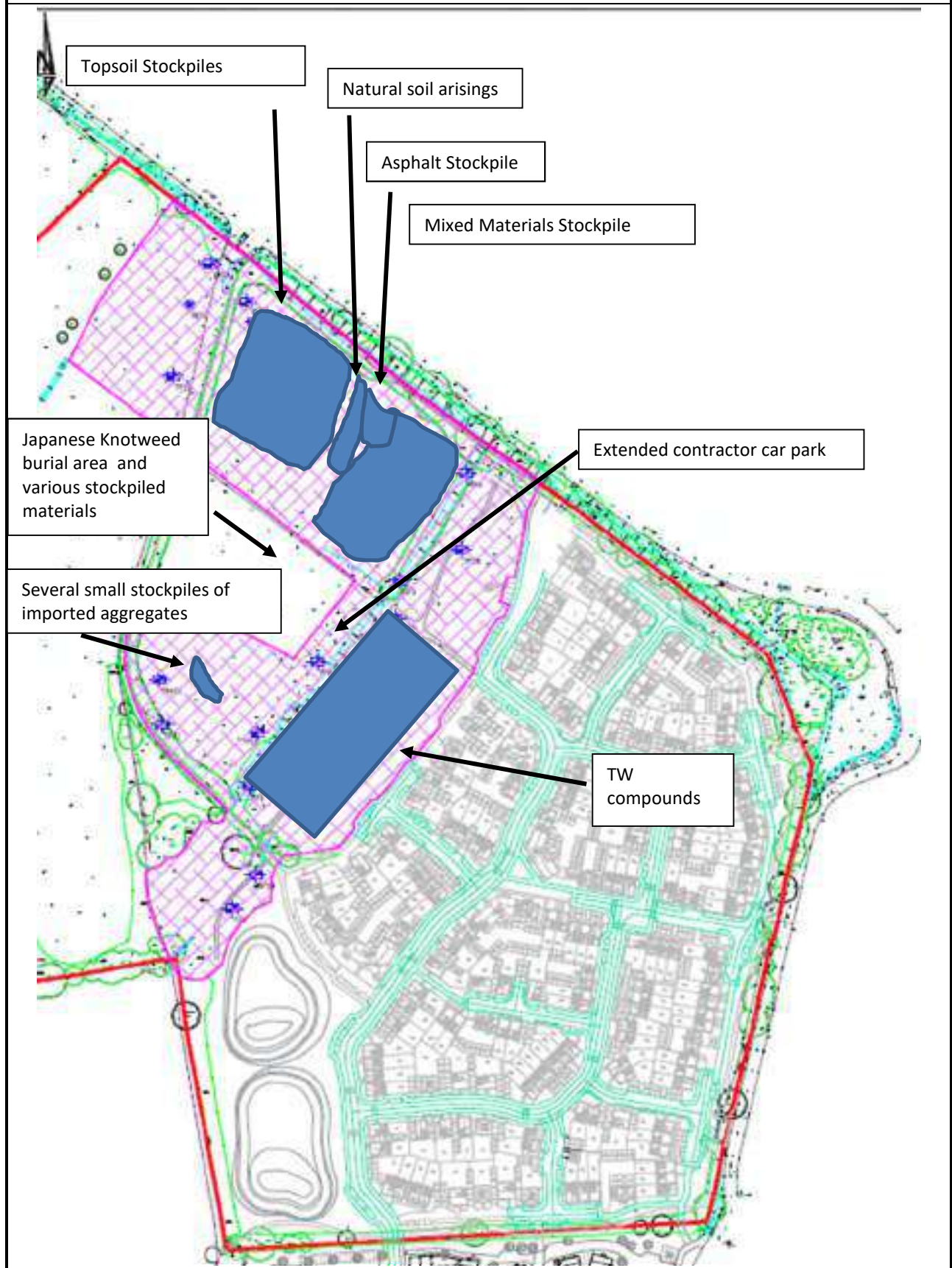
- Topographic surveying of all stockpiles to be undertaken regularly.
- Stockpiles should be appropriately managed to ensure retention of good quality materials for reuse.
- Prior to placement of capping layer, high visibility geotextile marker layer must be placed.

Other Comments:

Records of materials imported to the site should be maintained and efforts should be made to ensure that materials placed in the vicinity of stockpiles will not have a negative effect on stockpiled materials.

SITE VISIT REPORT

Sketch of works:



SITE VISIT REPORT

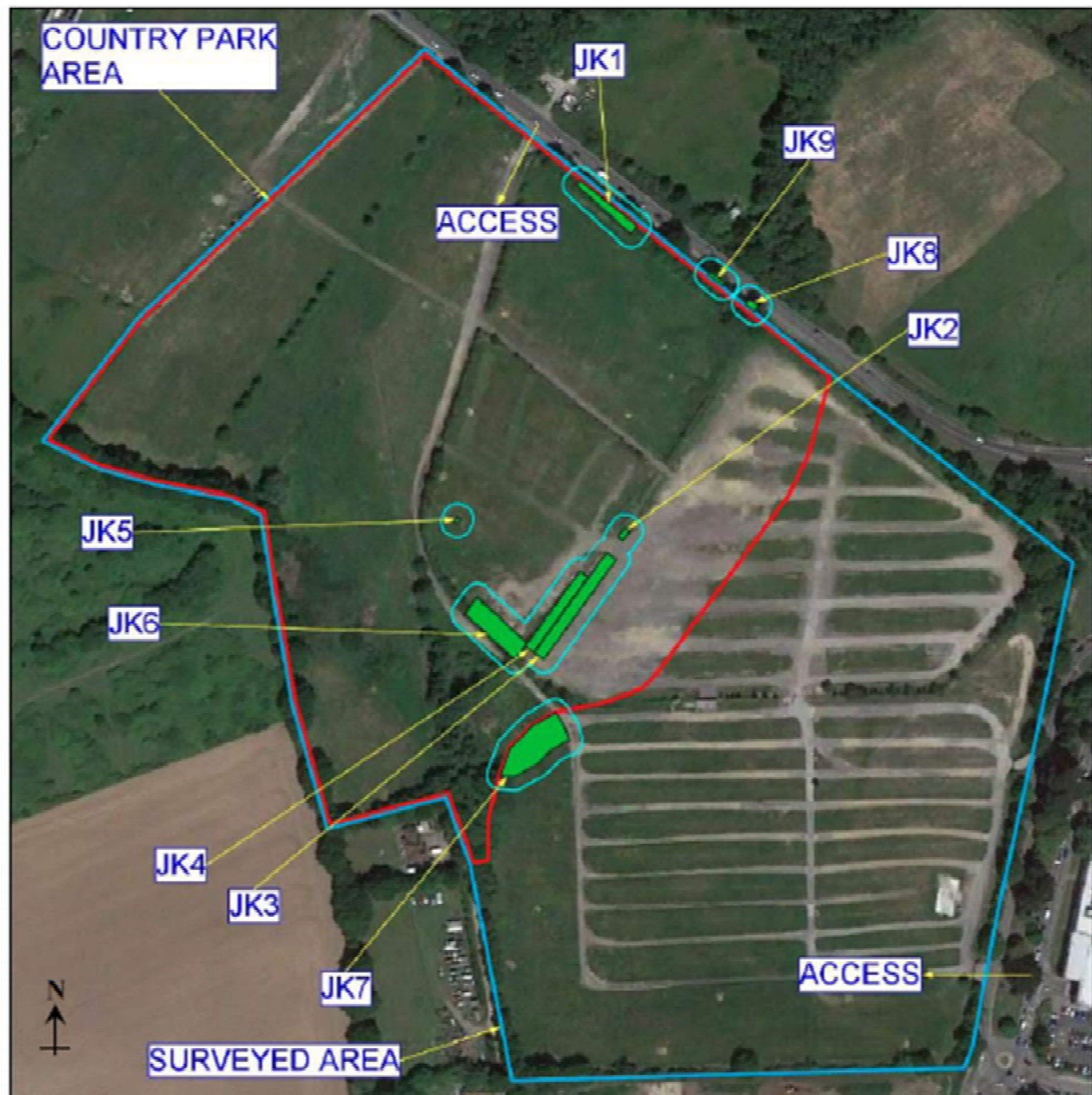
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Image 1: Aerial Photograph of proposed site layout showing knotweed distribution



SITE VISIT REPORT



Photograph 1: Brick and block waste stockpile to west of TW compound



Photograph 2: Soil and brick waste stockpile to west of TW compound

SITE VISIT REPORT



Photograph 3: Screened Topsoil stockpile in north west of site



Photograph 4: Various small stockpiles of aggregates to west of TW compound

SITE VISIT REPORT



Photograph 5: View of northern most attenuation basin now complete with headworks and Topsoils



Photograph 6: Nearly completed residential properties in the north west of the site

SITE VISIT REPORT



Photograph 7: Junction with Bursledon Road and show homes in north of the site



Photograph 8: Preparation of eastern parts of the site for construction

SITE VISIT REPORT

Project: Kestrel Park, Bursledon	Date: 09/10/2019
Client: Taylor Wimpey UK Ltd (Southern Counties)	Weather: Warm, patchy cloud
Contract No.: C-08162-C	Engineer: Myfanwy Wood

Persons Present:

Hydrock – Myfanwy Wood
 Mike Rudd
 Gracelands – Chris Nicholls

Summary of Work Activities:

- Taylor Wimpey progressing with general construction works.
- Hydrock collecting subsoil samples from stockpile for verification.

Comments/Discussion:

- Gracelands have placed part of the stockpiled subsoil materials into a large bund to the south of the access road into the compound.
 - Bund dimensions approx: 120 x 18 x 5 (L x W x H). The bund reaches approximately 5m in height in the centre which is approximately 6 metres across with steep sides (approximately 40-45°) down to ground level.
 - Construction: The bund is constructed of subsoil with a layer of topsoil which varies from 200 to 500mm in thickness.
 - The composition of the subsoil within the bund appears generally the same as soil encountered within the subsoil stockpile. However, the coarse fractions appear to have been sieved out. The cobble and coarse gravel sized inclusions of building materials and waste found within the subsoil stockpile do not appear to be present within the bund.
 - The steep sides of the bund have numerous surface cracks present due to instability of materials.
 - The bund seems to be well compacted however it is extremely water logged in places and water ingress was noted during hand excavation of an inspection pit.
 - Subsoil samples were retrieved from 6 locations across the bund.
- The remaining subsoil stockpile (north west of the TW compound) has approximate dimensions of 20 x 16 x 2.5 (L x W x H).
 - Subsoil samples were retrieved from 10 locations across the stockpile.
- Stockpile description:
 - Dark brown slightly silty sandy very gravelly CLAY with occasional cobbles and pockets of brown mottled orange silty very gravelly clay. Gravel is angular to sub-rounded fine to coarse flint, brick, concrete, glass, plastic, rope, pipework, asphalt and other general building materials.
 - Locally lenses of medium to coarse orange sand and grey fine sand.

Recommendations Made:

- Subsoil for reuse will be subject to laboratory testing based on the testing regime outlined in Hydrock Detailed Remediation Method Statement (ref: BRL-HYD-XX-REM-RP-GE-3000, December 2018).
- Verification of the Cover System will be required after placement.

Other Comments:

- Records of materials imported to the site should be maintained and efforts should be made to ensure that materials placed in the vicinity of stockpiles will not have a negative effect of stockpiled materials (i.e. cross contamination).
- Monitoring of the bund to ensure that cracks do not increase which could potentially cause bund failure.

SITE VISIT REPORT

Sketch of works:



SITE VISIT REPORT



Photograph 1: Looking across the top of the bund, facing southeast.



Photograph 2: Looking across the top of the bund, facing northwest.

SITE VISIT REPORT



Photograph 3: Surface cracks within topsoil of the bund.



Photograph 4: Mixed soils stockpile – unsuitable materials circled

SITE VISIT REPORT



Photograph 5: Mixed soils stockpile – unsuitable materials circled



Photograph 6: Excavation in mixed soils stockpile – unsuitable materials circled

SITE VISIT REPORT

Project: Kestrel Park, Bursledon	Date: 28/11/2019
Client: Taylor Wimpey UK Ltd (Southern Counties)	Weather: Clear, dry
Contract No.: C-08162-C	Engineer: Myfanwy Wood

Persons Present:

Hydrock – Myfanwy Wood

Gracelands – Mark Hill

Summary of Work Activities:

- Taylor Wimpey progressing with general construction works.
- Import of soil from Burr ridge Green to be stockpiled.

Comments/Discussion:

- Gracelands started stockpiling of materials imported from the Burr ridge Green development from week beginning 11/11/2019.
 - o Material being imported is extremely water-logged. It is currently being stockpiled in the area directly to the west of the TW compound to dry out.
 - o Material volume: 5000m³ total.
 - o Soil is being placed upon an orange membrane.
- This activity has been undertaken outside of Materials Management protocols and has not been declared under DowCoP. Taylor Wimpey have been made aware of this previously. Tracking data for materials movement should be provided. This activity may put TW at risk of financial penalties or otherwise.
- It is noted that several large pieces of asphalt remain in the soil bund created to the south of the site access road. Previous recommendations were made that large objects were to be removed from the stockpile using a riddle bucket for example.
- Several of the surface cracks present within the bund appear to have grown larger since the last visit to site (09/10/2019) with occasional small failures present.
- Topsoil from stockpile is approximately 1/4 used.

Recommendations Made:

- Stockpiles should be appropriately managed to ensure retention of good quality materials for reuse and no cross-contamination.
- Materials management tracking info on soil import from Burr ridge Green must be provided e.g. consignment notes.
- Monitoring of the bund to ensure that cracks do not increase which could potentially cause bund failure.

Other Comments:

- Given the potential instability of the bund, it may be prudent to regrade to a 1 in 3 slope or shallower to make safe.

SITE VISIT REPORT

Sketch of works:



SITE VISIT REPORT



Photograph 1: Looking towards the new stockpile of soil from Burr ridge Green, facing southwest.



Photograph 2: Looking along stockpile of soil from Burr ridge Green, facing east.

SITE VISIT REPORT



Photograph 3: Remainder of topsoil stockpile. Facing southwest.



Photograph 4: Surface cracks in bund. Facing southwest.

SITE VISIT REPORT



Photograph 5: Small bund failure on west facing slope of bund (approx. 2m length)



Photograph 6: Asphalt remains within west face of bund (approx. 50cm)



Photograph 7: Overview of the bund, facing southeast.

SITE VISIT REPORT

Project: Kestrel Park, Bursledon

Date: 12/12/2019

Client: Taylor Wimpey UK Ltd (Southern Counties)

Weather: Overcast, dry

Contract No.: C-08162-C

Engineer: Myfanwy Wood

Persons Present:

Hydrock – Myfanwy Wood

Gracelands – Chris Nicholls

Summary of Work Activities:

- Taylor Wimpey progressing with general construction works.
- Import of soil from Burr ridge Green to be stockpiled for reuse in cover system (ongoing).

Comments/Discussion:

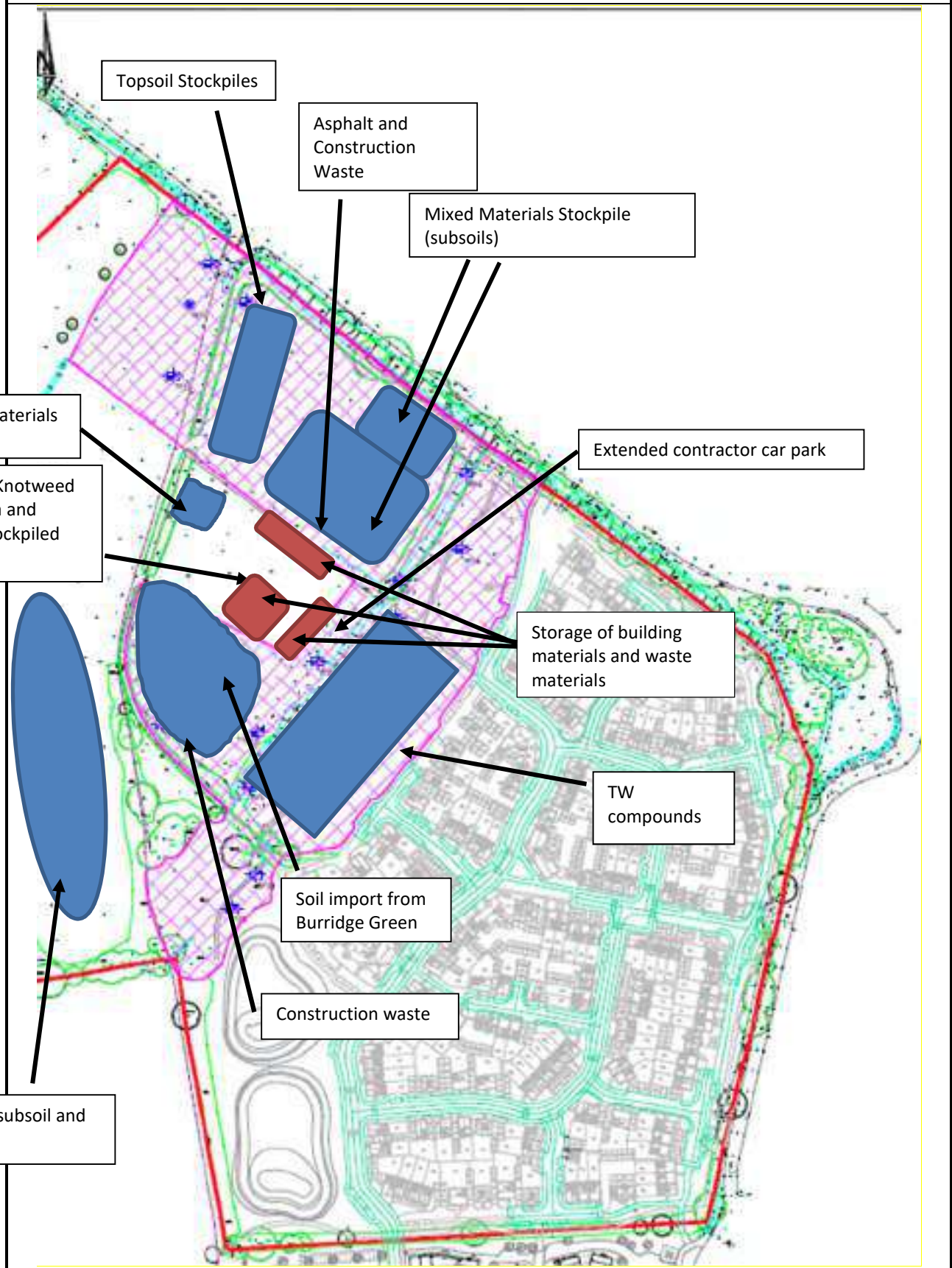
- Gracelands are continuing with the stockpiling of materials imported from the Burr ridge Green development which is due to stop over the holiday period on 16/12/2019.
 - o The stockpile is now extending to the edge of the storage area, up to the boundary fence.
 - o There is vast quantity of anthropogenic materials in the TS located along the southern boundary at the fence line, including: concrete and brick.
- The surface cracks present within the bund that were noted at the last visit (23/11/19) do not appear to have increased in size and no new cracks were observed.

- Gracelands have been advised not to utilise or move the mixed subsoil stockpile following identification of the presence of asbestos fibres within the soils based on the subsoil verification works undertaken on 09/10/2019. This material must be fenced off until further notice.
- Stockpiles should be appropriately managed to ensure retention of good quality materials for reuse and no cross-contamination.
- Materials management tracking info on soil import from Burr ridge Green must be provided e.g. consignment notes.
- Monitoring of the bund to ensure that cracks do not increase which could potentially cause bund failure.
- Tracking info to be provided for movement of topsoil from Heron Walk.

Other Comments:

SITE VISIT REPORT

Sketch of works:



SITE VISIT REPORT



Photograph 1: Looking west towards ongoing stockpiling of soil from Burr ridge Green.



Photograph 2: Storage of general construction waste at southern most end of Burr ridge Green TS stockpile.

SITE VISIT REPORT



Photograph 3: Sporadic anthropogenic materials within imported Burridge Green subsoil stockpile.



Photograph 4: Remaining mixed subsoil stockpile.

SITE VISIT REPORT



Photograph 5: Remaining topsoil stockpile (in northern stockpile area).



Photograph 6: Overview of the bund to the west of the haul road, looking southeast.

SITE VISIT REPORT

Project: Kestrel Park, Bursledon

Date: 08/01/2020

Client: Taylor Wimpey UK Ltd (Southern Counties)

Weather: Overcast, dry

Contract No.: C-08162-C

Engineer: Myfanwy Wood

Persons Present:

Hydrock – Myfanwy Wood
No staff from Gracelands were present.

Summary of Work Activities:

- Taylor Wimpey progressing with general construction works.
- Import of soil from BurrIDGE Green to be stockpiled for reuse in cover system (ongoing).

Comments/Discussion:

- Stockpiling of materials imported from the BurrIDGE Green development was due to stop over the holiday period on 16/12/2019, no new import activities were observed.
 - The stockpile is now extending to the edge of the storage area, up to the boundary fence.
 - There is a significant quantity of anthropogenic materials in the soil located along the southern boundary at the fence line, including: concrete and brick.
- No new surface cracks within the new bund have been noted since the last visit (12/12/19) and the existing cracks do not appear to have increased in size.
- Laboratory testing of soils in the Mixed Materials Stockpile has identified asbestos fibres <0.001% to 0.002%.

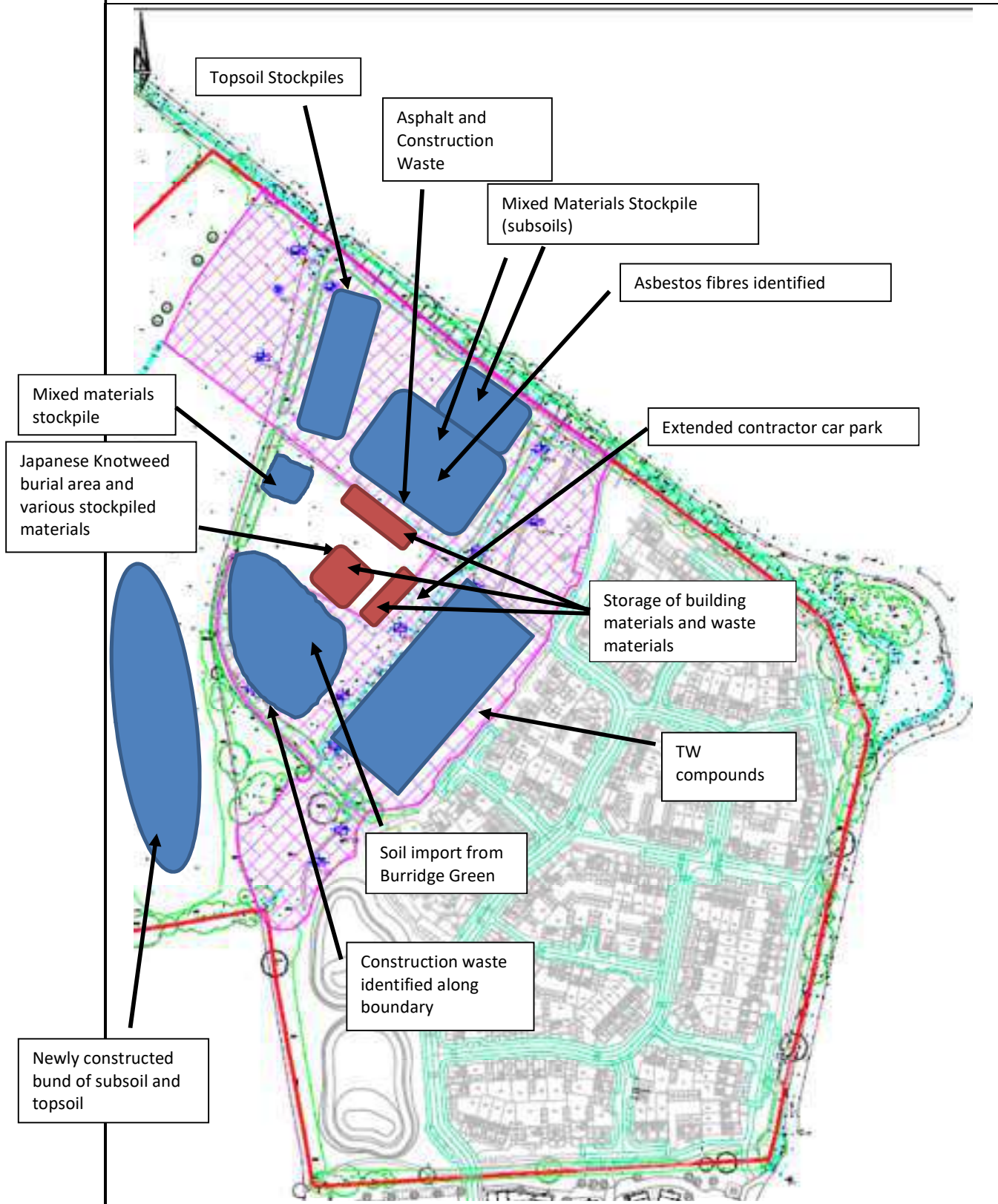
Recommendations Made:

- Gracelands have been advised to fence off the mixed materials subsoil stockpile, that is partly contaminated with asbestos, until further notice. The material may be placed within the Country Park area beneath the capping layer, as part of soil reuse in line with the Remediation Strategy.
- Stockpiles should be appropriately managed to ensure retention of good quality materials for reuse and no cross-contamination.
- Materials management tracking info on soil import from Burr ridge Green must be provided e.g. consignment notes.
- Monitoring of the bund to ensure that cracks do not increase which could potentially cause bund failure.
- Tracking info to be provided for movement of topsoil from Heron Walk.
- Membrane to be placed beneath capping layer prior to placing clean soils in the former landfill area – Hydrock to be informed in advance of capping layer construction to allow for inspections and testing.

Other Comments:

SITE VISIT REPORT

Sketch of works:



SITE VISIT REPORT



Photograph 1: Southern side of the mixed materials (subsoil) stockpile, facing east.



Photograph 2: Western side of the mixed materials (subsoil) stockpile, facing south.

SITE VISIT REPORT



Photograph 3: Topsoil stockpile (left) and mixed materials stockpile (right), facing North.



Photograph 4: Area of materials storage (right) and construction waste (left), facing west.

SITE VISIT REPORT



Photograph 5: Burrage Green soil stockpile, facing south.



Photograph 6: Overview of the bund to the west of the haul road, looking south. (No access possible).

SITE VISIT REPORT

Project: Kestrel Park, Bursledon	Date: 18/02/2020
Client: Taylor Wimpey UK Ltd (Southern Counties)	Weather: Overcast, dry
Contract No.: C-08162-C	Engineer: Myfanwy Wood

Persons Present:

Hydrock – Andrew James
 Shaun – new site manager
 Nick Rogers Surveying (NRS) - Nick and Ian

Summary of Work Activities:

- Inspection of gas membranes Plots P181-187, P60-64, P67-69 - Recheck exposed lap around cavity after long exposure time without building up.
- Inspection of stockpiles.

Comments/Discussion:

Inspection of gas membranes

- Inspection of gas membranes P181-187. Majority of cavity areas covered by dpc as temporary measure to protect. Stapled down.
- Inspection of gas membranes Plot P181. Membrane seems ok where exposed at thresholds. No delamination or tearing. Cannot confirm membrane still continues over cavity above vents due to block work over build. Previously seen to be properly installed based on initial inspection. Water sitting on top, not leaking through. Check supplier guidance on exposure to weather vs guarantee.
- Inspection of gas membrane Plot 182. As 181, edges of thresholds a little tatty.
- Inspection of Plot 183. Issues with exposed membrane at thresholds. Missing vent.
- Inspection of Plots 184-185. Party wall join seems fine. Thresholds ok.
- Inspection of Plots 186-187. Party wall join seems fine. Thresholds ok.
- Inspection of Plots 60-62. Can see membrane continues from floor over cavity and vents. Joints and details generally appear ok. Flapping up a bit around edges where not secured, will need proper placement before progressing block work.
- Inspection of Plots 63-64. Inconsiderate materials storage over west side, requires remedial works. Remainder appears in good condition.
- Inspection of Plots 67-68. Large 5" tear in party wall membrane strip exposed between screed of 67-68. Very wet, algae build up. Vent missing and periscope coming away from south wall of 67. 3" tear in NW corner of 68.
- Inspection of Plot 69. Much debris and water over party wall strip 68-69. Western cavity membrane full of debris and slumped. Block work built up in north side appears to have pulled back membrane from edge of external elevation by circa 1-2" which may explain why it isn't apparent on other plots where more progressed with block work.

- P65-66 completed – no inspection.

Inspection of stockpiles

- Survey soil imported from Burr ridge Green
- Light yellowish brown silty clay with occasional fine to coarse flint, fine to whole bricks, rare timber. Areas of sporadic construction waste added to pile, some evidence of mixing- electrical cables, plastic ducting, concrete boulders.
- Stockpile is poorly placed, very undulous. Difficulty to accurately survey. Suggest machine to level out.
- Spoke to Dave Lawrence and Martin Stevens. Gracelands unlikely to work the stockpile to level. NRS to provide costing to Martin and undertake survey of five stockpiles highlighted by AJ on site to provide verification data on materials movement in the absence of tracking data from Gracelands. NRS started survey works during AJ visit, having discussed cost variations with Martin over the phone. Gracelands say the import soil was slop which is why the stockpile is a mess.
- SP-BG: Soil import from Burr ridge Green. Light yellowish brown silty clay with occasional fine to coarse flint, fine to whole bricks, rare timber.
- SP-MM02: Mixed materials stockpile. Brown grey silty sandy gravelly clay with occasional whole brick, breeze blocks, plastic ducting, glass bottles and fragments, metal fragments, timber
- SP-G: Granular stockpile. Predominantly crushed brick, concrete and flint gravel with rare plastic ducting and fragments of asphalt in a brown grey silty sandy matrix. Store of breeze blocks and brick.
- SP-TS: Topsoil stockpile. Dark brown to grey brown slightly gravelly clayey topsoil. Very gravelly in places. Gravel is fine to coarse flint.
- SP-MM01: Mixed materials stockpile. Silty clayey gravel with variable proportions of construction waste locally. Sporadic patches of asphalt

Recommendations Made:

- All plots had been screeded, membrane likely protected beneath the screed. Inspection was targeted at exposed membrane and vents.
- All plots need the membranes dried out and remove all debris before progressing/ sign-off.
- Recommended approach the installer to check the manufacturers guidance – need confirmation from them that being exposed to the elements eg wind, rain, UV will not have any adverse effect on the membrane. Once this is confirmed and tears patched up, plus vents/periscopes reinstated, inform Hydrock for reinspection.
- Following re-inspection, it is recommended construction of the units is undertaken as soon as possible to prevent any further issues.
- Gracelands Chris Nicholls stated he recommended installing two courses of brick to avoid this scenario.

Other Comments:

SITE VISIT REPORT

Sketch of works:



SITE VISIT REPORT



Photograph 1: Burridge Green Stockpile



Photograph 2: Granular material stockpile

SITE VISIT REPORT



Photograph 3: Topsoil Stockpile



Photograph 4: SP-MM01: Mixed materials stockpile.

SITE VISIT REPORT

Project: Kestrel Park, Bursledon	Date: 05/06/2020
Client: Taylor Wimpey UK Ltd (Southern Counties)	Weather: Hot, sunny
Contract No.: C-08162-C	Engineer: Andrew James

Persons Present:

Hydrock – Andrew James
Dave Brown TW North -site manager
Sean Corbin TW South – site manager

Summary of Work Activities:

- Re-Inspection of gas membranes plots 181-187, 60-64, 67-69.
- General site inspection

Comments/Discussion:

- Plot 145 (block C) cut out floor for drainage repair. Damage around edge where cut roughly. Dave to arrange repair and photograph.
- Plot 160 same as 145 but very neat removal of concrete and no damage to underlying membrane.
- briefly looked at 183 to discuss block work added since membrane repair. Internal wall added 1.5 layers of block work. DPC covers over new membrane repairs reinstated to protect from potential UV damage prior to final block work installation.
- 181, 182, 183 - cleared. All replaced around edge and thresholds. Internal 1.5 courses of block work constructed but can see built over new membrane. Date stamps show Feb 2020 manufacture of membrane.
- 184-185 - party wall not visible due to block work installation. Can see membrane going under at western end. All else fine. Cleared.
- 186-187 - block work on internal walls significantly progressed. Can still access membranes to inspect repairs with exception of party walls. Membrane looks in good condition. Cleared.
- 60-62 - 1.5 courses of internal block work installed. Not obstructing membrane inspection except party walls.
- 63-64 as above. Cleared.
- 67-69 - doesn't look like these have been repaired/replaced. Neil at NEA says likely overlooked. Sean has certificate of works completed showing 67-69 done yesterday, AJ took photo.
- Brick wall at end of 69 looks like original, compare photos back in office. Not convinced end wall in 69 was ever removed, can see difference between new and original membrane. Cleared.

Country park Cover System west of haul road:

Grass scraped up before placement of clean cap. Grass stockpiled adjacent to recent bund constructed west of haul road. Membrane placed. At least 0.5m of brown clay placed from Burr ridge Green import stockpile.

Other Comments:

SITE VISIT REPORT



Photograph 1: Cover system in former landfill area



Photograph 2: Re-inspection of gas membranes P63 – P64

SITE VISIT REPORT



Photograph 3: Re-inspection of gas membranes P182



Photograph 4: Re-inspection of gas membranes P181

SITE VISIT REPORT



Photograph 5: Re-inspection of gas membranes P183



Photograph 6: Re-inspection of gas membranes P61 – P62

SITE VISIT REPORT

Project: Kestrel Park, Bursledon

Date: 10/08/2020

Client: Taylor Wimpey UK Ltd (Southern Counties)

Weather: Hot, sunny

Contract No.: C-08162-C

Engineer: David Pethica

Persons Present:

Hydrock – David Pethica

Summary of Work Activities:

- Taylor Wimpey progressing with construction with houses appearing to be nearing completion.
- Import of soil from BurrIDGE Green placed in soil bunds and stockpiles.

Comments/Discussion:

- Stockpiling of materials imported from the BurrIDGE Green has been ongoing. Stockpiles and soil bunds are vegetated where not recently placed.
- Soils are noted to have been placed to the north of the site compound.
- Various soil stockpiles are now apparent across the area of Japanese Knotweed burial pit. These comprise imported granular materials, construction waste materials mixed with what appear to be site won soils, concrete blocks, crushed concrete, occasional asphalt, wood, stacks of pallets and skips.
- The stockpiling area to the north of the site of remains largely unchanged with screening of topsoil's appearing to be complete and other areas of stockpile now vegetated.
- A large bund to the south of the country park area is now vegetated with an second heap of more recently placed organic rich materials placed in to the east of this. The origin of these materials is unknown at present.
- To the north of the country park area is a second large stockpile/form which is largely vegetated now, the eastern most flank of the pile appears to have had additional soils recently placed, under which is a hi-vis membrane.
- To the north of the site offices an area of recently placed soils is evident, overlying a hi vis membrane.

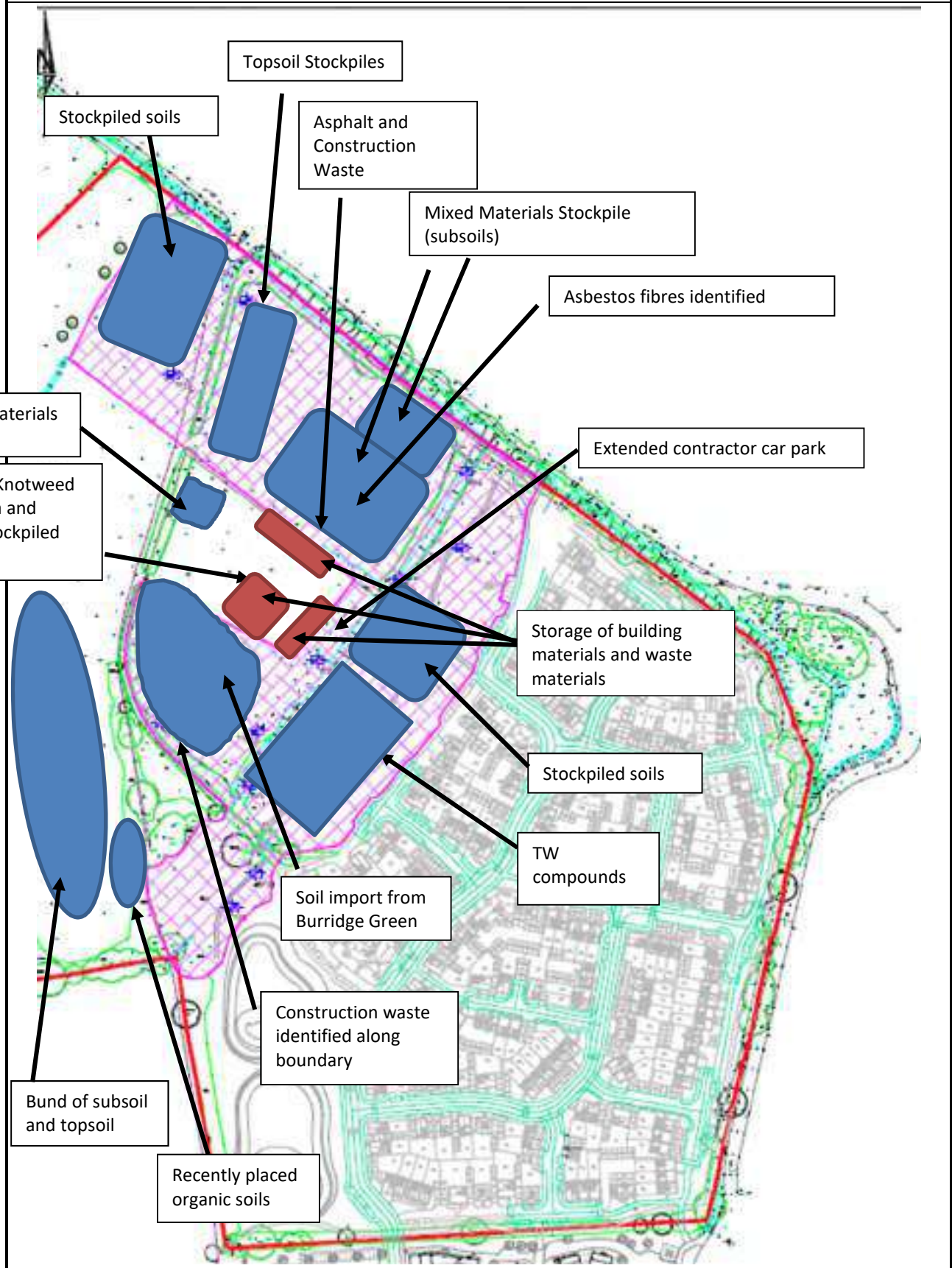
Recommendations Made:

- Stockpiles should be appropriately managed to ensure retention of good quality materials for reuse and no cross-contamination.
- Waste soils and materials noted in the vicinity of the Japanese Knotweed burial pit should be disposed of appropriately.
- Materials management tracking info on soil import from Burr ridge Green must be provided e.g. consignment notes. Some records have been provided to date. Details of where soils are being placed should be provided to Hydrock.
- Monitoring of the bund to ensure that cracks do not increase which could potentially cause bund failure.
- Tracking info to be provided for movement of topsoil from Heron Walk.
- Membrane to be placed beneath capping layer prior to placing clean soils in the former landfill area – Hydrock to be informed in advance of capping layer construction to allow for inspections and testing.

Other Comments:

SITE VISIT REPORT

Sketch of works:



SITE VISIT REPORT



Photograph 1: Looking north east from TW site compound.



Photograph 2: Recently placed soils to the north of site compound

SITE VISIT REPORT



Photograph 3: Eastern flank of stockpile in north of country park area



Photograph 4: Looking north toward stockpile in north of country park area.

SITE VISIT REPORT



Photograph 5: Recently placed organic soils to east of bund in the south of the country park area.



Photograph 6: Bund and recently placed soils in south of country park area

SITE VISIT REPORT



Photograph 7: Looking north across area of Japanese Knotweed burial pit, stockpiled waste materials



Photograph 8: Various mixed soils and construction waste materials to the west of the site compound.