GeoEnvironmental Pty Ltd

Geotechnical and Environmental Solutions

PRELIMINARY SITE INVESTIGATION

FOR

ANGUS DEVELOPMENTS PTY LTD

Land at 466-480 New Canterbury Road & 26-38 Hercules Street, Dulwich Hill, NSW

Report No: 17/0376

Project No: 21192/7558C

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EXECUTIVE SUMMARY

STS GeoEnvironmental Pty Ltd (STS) has completed a preliminary site investigation (PSI) for the property at 466-480 New Canterbury Road and 26-38 Hercules Street, Dulwich Hill, New South Wales (the 'site') for Angus Developments Pty Ltd. The objective of the investigation was to provide advice on the potential for environmental exposures at the property due to land contamination that may be significant for a mixed commercial and high-density residential land use setting. The investigation was performed in accordance with Environment Protection Authority (EPA) and national guidelines for the assessment and management of site contamination.

The site is approximately 5 000 m^2 and is proposed to be redeveloped for a mixed commercial and high-density residential land use, which will involve the demolition of existing structures and the construction of a new residential unit building with mixed commercial and residential ground floor and residential units above. We also understand that two or three levels of basement car parking are proposed, which will require the bulk excavation of the majority of the site to depths between 4 m and 9 m below the existing land surface. However, two small unexcavated areas will remain in the west and south eastern corners of the site as landscaping and/or garden zones, and an existing church which occupies the south-east of the site would also be retained.

The northern portion of the site is expected to have been used for commercial/industrial purposes since at least the 1930s, whilst the southern portion comprised residential allotments before being progressively redeveloped for commercial/industrial purposes between the late 1940s and 1950s. Substantial redevelopment also occurred between 1961 and 1970 with the demolition of a number of previously existing small buildings and the construction of a new larger commercial/industrial complex. Since the 1970s the configuration of the site has remained largely unchanged to the present day. Key activities that are known or expected to have occurred at the site over time include timber storage and carpentry/fabrication, the storage and sale of power tools/industrial mixing equipment, bathroom fittings, floor coverings and sewing machines, the production/sales of dairy foods and chocolates, clothing storage/manufacture and alterations, printing and general warehousing. In addition, portions of the site are known to have been occupied by takeaway food outlets, a photographic studio, a fitness shop and a church.

A preliminary soil sampling program was performed as part of the PSI, which involved the collection of soil samples from a total of six locations across the site and the analysis of the samples for a broad screen of potential chemical contaminants. The results of the soil sampling program show that the concentrations of chemical contaminants measured in the soils on the site are generally low and at levels that would not be expected to present an unacceptable risk to human-health or the environment for a mixed commercial and high-density residential land use setting. In addition, the results show that the site is not expected to be the source of unacceptable groundwater impacts.

Based on the results of this investigation and also that the site is proposed to be bulk excavated for a basement car parking facility as part of the proposed redevelopment, the site is likely to be made suitable for the proposed mixed commercial and high-density residential land use simply by developing the land in accordance with the current proposed plans. However, given that a number of allotments which form part of the site were not able to be accessed during this investigation it is recommended that a thorough inspection of the site be undertaken by an environmental consultant at the time of redevelopment after the existing buildings and hardstand surfaces have been removed (when the underlying soils are exposed) in order to screen the site for potential soil impacts. In addition, given that the soil sampling performed as part of this investigation was preliminary in nature it is recommended that further limited soil sampling also be performed at the time of redevelopment to confirm that the concentrations of contaminants in the soils within the areas outside the footprint of the proposed bulk excavation are low and do not present an unacceptable risk to human-health or the environment for the proposed use of the land.

All soil that is removed from the site during the proposed basement bulk excavation works must also be disposed of in accordance with regulatory requirements. The results of the soil sampling program have shown that the layer of near surface fill and topsoil that occurs across the site would not be suitable for beneficial reuse as clean fill, and any surplus volumes of this material that is produced during redevelopment will therefore need to be disposed of to a licensed landfill facility. The sampling results have also shown that the fill/topsoil layer can be classed as GSW for this purpose. It is also expected that the natural silty clay subsoil and underlying shale rock that will be excavated during construction of the basement could be classed as virgin excavated natural material (VENM), thus enabling this material to be beneficially reused as clean fill on other development sites. However, further soil sampling will need to be performed following the stripping of the fill/topsoil layer in order to confirm a VENM classification.

1. INTRODUCTION

STS GeoEnvironmental Pty Ltd (STS) was engaged by Angus Developments Pty Ltd to undertake a preliminary site investigation (PSI) for a property defined as 466-480 New Canterbury Road and 26-38 Hercules Street, Dulwich Hill, NSW (the 'site'). The investigation was performed in accordance with Environment Protection Authority (EPA) and national guidelines for the assessment and management of site contamination.

The objectives of the investigation were to provide advice on the potential for environmental exposures at the property due to land contamination that may be significant for a mixed commercial and high-density residential land use setting.

The scope of the PSI included:

- Site inspection;
- Appraisal of geology and hydrogeology at the site, as required by EPA guidelines;
- Examination of aerial photographs and satellite imagery of the site and surrounds;
- Review of a Council Section 149(2) planning certificates;
- Review of land title information, including a historical title search;
- Review of public NSW EPA and SafeWork NSW records;
- Assessment of the potential for surrounding land uses to cause site contamination;
- Soil sampling from six locations across the site and laboratory analysis of selected samples for a broad screen of potential contaminants;
- Assessment of analytical data and quality assurance (QA);
- Appraisal of the potential harm to human-health and the environment, and evaluation of potential contaminant exposure pathways;
- Classification of the soils on the site for off-site disposal in accordance with EPA guidelines;
- Recommendations for the site with regard to relevant guidelines for the assessment and management of site contamination, including the need for any further investigation or remediation that may be required; and
- Preparation of a confidential report on the results of the PSI.

2. REDEVELOPMENT AND PROPOSED LAND USE

We understand that the site is proposed to be redeveloped for a mixed commercial and high-density residential land use, which will involve the demolition of the majority of existing structures and the construction of a new eight story residential unit building with mixed commercial and residential ground floor and residential units above. We also understand that two or three levels of basement car parking are proposed, which will require the bulk excavation of the majority of the site to depths between 4 m and 9 m below the existing land surface. However, two small unexcavated areas will remain in the west and south eastern corners of the site as landscaping and/or garden zones, and an existing church which occupies the south-east of the site would also be retained. The current proposed development plans for the site are provided in Appendix A.

3. SITE IDENTIFICATION

The site at 466-480 New Canterbury Road and 26-38 Hercules Street, Dulwich Hill, NSW has an area of approximately 5 000 m^2 and it is defined as Lots 1-3 and 5-7 in Deposited Plan (DP) 236603, lots 1-2 and 4 in DP 540366, lots 1-4 in DP 542147 and lot 14 Section 4 in DP 932, Parish of Petersham, County of Cumberland. The location of the site is shown on Drawing No 17/0376/1.

The site is within the Inner West Council local government area, and is currently zoned 'IN2 – Light Industrial' under the Marrickville Local Environmental Plan 2011.

4. PREVIOUS ENVIRONMENTAL REPORTS

No previous environmental assessment reports are known to have been prepared for the site.

5. SITE FEATURES

The site was inspected on 23 February 2017 to confirm the condition of the land, and to identify potential contamination sources. A plan showing the current site configuration and site features is shown on Drawing No. 17/0376/2. The key features as determined by the inspection are:

General Site

- The site comprises a rectangular-shaped parcel of land that is bordered by New Canterbury Road to the north, Hercules Street to the south, Kintore Street to the east and-the Dulwich Grove Light Rail to the west. Mixed use, neighbourhood centre (small-scale retail, business and community uses), low and high density residential properties are located north across New Canterbury Road; Dulwich Hill Public School is located to the south across Hercules Street; mixed use low density and general residential properties are located to the east across Kintore Street whilst the land to the west of the site after the light rail is occupied by low and high density residential properties. The site comprises fourteen separate allotments as described below.
- The land has a natural moderate slope to the west-south west with a topographic differential of approximately 4 m. The morphology of the land also suggests that minor filling may have occurred for levelling purposes. In addition, minor filling may have occurred beneath the buildings across the site and a granular material may also have been also imported for use as a sub-grade beneath external hardstand surfaces.

466-468 New Canterbury Road (Lots 1-2 in DP 542147)

- This portion occupies the north-eastern corner of the site, comprises a two-storey brick commercial premise which serves as a Chinese takeaway food shop and face New Canterbury Road to the north and Kintore street to the east. Although the property is not owned by Angus Developments we understand that the land acquisition process is currently ongoing. The allotment was not available for inspection.

470 New Canterbury Road (Lot 3 in DP 542147)

- This portion is located to the north-east of the site and comprises a two-storey brick commercial premise fronting New Canterbury Road, which serves as a fitness shop. Although the property is not owned by Angus Developments we understand that the land acquisition process is currently ongoing. The allotment was not available for inspection.

472 New Canterbury Road (Lot 4 in DP 542147)

- This portion is located to the north-east of the site and comprises a two-storey brick commercial premise fronting New Canterbury Road, which appears empty and have been previously used by a security company. Although the property is not owned by Angus Developments we understand that the land acquisition process is currently ongoing. The allotment was not available for inspection.

474 New Canterbury Road (Lots 1-2 in DP 540366)

- This portion is divided into two separate areas, lot 1 and lot 2. Lot 1 is located to the north-east of the site facing New Canterbury Road and comprises a two-storey rendered factory/commercial premise which serves as a showroom for sewing machines. A cabinet for small quantities of paints is kept at the north-east of the property. Lot 2 is at the rear of the building to the south-east of the site facing Hercules Street and contains a single-story brick factory/commercial premise that serves as office and storage areas for the sewing machines sales and rentals facility. A cabinet for small quantities of degreasers and machine oils are kept at the south-east of the property.

476 New Canterbury Road (Lot 3 in DP 236603)

- This portion is located at the site north central area and comprises a two-storey rendered premise which serves as a chocolate factory shop and occupies the majority of the site. A small area located to the north-east was being used for the storage of equipment and pieces of machinery (pumps, forklifts, generators, etc.).

478 New Canterbury Road (Lot 2 in DP 236603)

- This portion is located to the north-west of the site facing New Canterbury Road, comprises a two-storey rendered factory/commercial premise and is occupied by All Smart Kitchens which serves as a custom joinery/kitchen manufacturing shop. One forklift gas cylinder (15Kg) was observed at the north of the property. Power operated tools and electrical machines for panel sawing were being used in the workshop area. A small spraying area and a small cabinet for small quantities of paints and thinners are located at the south-eastern corner of the property.

480 New Canterbury Road (Lot 1 in DP 236603)

- This portion occupies the north-western corner of the site, comprises a two-storey rendered factory/commercial premise fronting New Canterbury Road and is occupied by Kim's Ceramics/Tile Market which serves as a carpet and flooring shop. The allotment was not available for inspection.

26 Hercules Street (Lot 14 Sec 4 in DP 932)

- This portion occupies the south-eastern corner of the site which face Hercules street to the south and Kintore street to the east and is divided into two separate areas. The southern portion of the lot comprises a brick cottage that was being used for residential purposes but was not available for inspection, whilst the northern portion of the lot comprises a rendered brick garage that was being used as a graphic design studio and provides advertising and marketing services. A cabinet for small quantities of paints was observed being kept at the east of the garage.

28 Hercules Street (Lot 4 in DP 540366)

- This portion is located to the south-east of the site facing Hercules Street, comprises a two-storey brick building and is occupied by a Greek Orthodox Church. The allotment was not available for inspection.

34 Hercules Street (Lot 7 in DP 236603)

- This portion is located to the south-centre of the site facing Hercules Street, comprises a single-storey brick building and is occupied by a clothing factory/tailoring shop.

36 Hercules Street (Lot 6 in DP 236603)

- This portion is located to the south-west of the site facing Hercules Street, comprises a single-storey brick building and is occupied by Patrick's tailoring/ alterations which serves as a clothing factory/tailoring shop. A small oil stain associated to an old leak from an industrial sewing machine was observed on the concrete floor at the western area of this allotment.

38 Hercules Street (Lot 5 in DP 236603)

- This portion is located to the south-western corner of the site facing Hercules Street to the south and the light rail station to the west, comprises a two-storey brick building and is occupied by The Stills factory which serves as a digital photography/printer's studio. The allotment was not available for inspection.

6. GEOLOGY AND HYDROGEOLOGY

The Geological Survey of NSW 1:100,000 Sydney Geological Map (Sheet 9130) shows that the site is underlain by the Triassic Age 'Ashfield Shale' formation which comprises black to dark-grey shale and laminate.

The natural soils encountered on the site during this investigation were observed to predominantly comprise orange, red and light-brown silty clays, which are consistent with soils in-situ weathered from the regional geological formation. Further, our review of the acid sulfate soil (ASS) risk maps available via the Office of Environment and Heritage and the CSIRO Australian Soil Resource Information System (ASRIS) online databases shows that the site is located in an area with a no known or with an extremely low probability of occurrence of ASSs.

A layer of imported fill material between 0.3 m and 1.0 m in thickness was also encountered in four of the six boreholes, with the fill being observed to comprise gravelly silty clay, gravelly clayey sand and silty sandy clays. Further, anthropogenic wastes including brick and concrete fragments, glass, ash and copper pipe were observed in the fill at three borehole locations.

A search of the NSW Office of Water groundwater database was also performed to identify registered groundwater bores in the vicinity of the site and no existing registered bores were identified within a 1 km radius of the site. However, the search identified sixteen bores (Nos.GW102402, GW107406, GW107407, GW110010-GW110014, GW110118-GW 110122 and GW112121-GW112123) within 2 kms of the site, fifteen of which are active and registered for monitoring purposes and one has been converted and registered for domestic purposes.

The drilling logs for the bores shows standing water levels (where reported) are stated as range between 1.5 m and 6 m below the ground surface and aquifer lithology is reported to predominantly comprise clays, shale and sandstone.

Based on the observations made during our on-site soil sampling activities, the results of the groundwater database search and our review of the site geology, a summary of the site hydrogeology is shown in Table 6.1 below.

TABLE 6.1 – SITE HYDROGEOLOGY

Aquifer Type and Lithology:	Clays and Shale rock[1,2]
Perched groundwater:	Potentially present at the soil/bedrock interface, especially after periods of rain[2]
Depth to Regional Aquifer at Site:	Expected to be in the order of 5 m to 10 m below the ground surface
Local Groundwater Flow Direction:	South to South-West, in alignment with natural hillslope contour[2]
Regional Groundwater Flow Direction:	South to South-West, in alignment with regional drainage network and land contour, towards the regional receiving environment [2]
Receiving Environments:	Cooks River, located approximately 940 m south of the site, which is a tributary flowing to Botany Bay[2]

[1]Actual conditions based on observations made during on-site drilling performed by STS.
[2]Inferred conditions based on site/regional geology and geomorphology.

7. SITE HISTORY

The history of the land subject to the investigation was obtained from the following sources:

- Historical aerial photographs of the site and surrounds held by Land and Property Information NSW;
- Satellite imagery available on the Google Earth™ program;
- A Section 149(2) planning certificate provided by Inner West Council;
- Historical land titles;
- SafeWork NSW records;
- Anecdotal information provided by current site occupiers; and
- NSW EPA records.

7.1 Aerial Photographs and Satellite Imagery

Aerial photographs from 1930, 1943, 1956, 1961, 1970, 1986, 1994, 2009 and 2014 were examined to identify previous land uses at the site and its surrounds. In addition, satellite imagery from 2003 and 2016 available via the Google Earth program was reviewed. A copy of each aerial photograph and Landsat image showing the location of the site is provided in Appendix B, and a description of the observations made are provided in Table 7.1 below.

TABLE 7.1 – AERIAL PHOTOGRAPH OBSERVATIONS AND SATELLITE IMAGERY

Year	Site Features	Surrounding Land Use
1930	The photograph is of poor quality; however, the site is developed and what appears to be a mix of residential and small commercial/ industrial buildings are located across the property.	The surrounding land across the now known as New Canterbury Rd to the north, Hercules St to the south, Kintore St to the east and the railway to the west is developed and appears predominantly used for commercial/ industrial purposes although some residential allotments are also visible to the east of the site and on further land in all directions. Several factories are also located out of the site to the north-east along New Canterbury Road whilst small scale brickmaking operations and with associated quarry pits are present on the land further to the north-west of the site across New Canterbury Rd and the railway.
1943	The improved quality of the photograph show the site is divided in a number of individual allotments. The allotments which form the southern portion of the site appear to be residential in nature with a house being located on each, whilst the northern portion of the site appears to comprise commercial/ industrial premises.	The land surrounding the site is essentially unchanged, although the area to the south-east out of the site appears vacant and undeveloped and a commercial/industrial complex to the south-west of the site across the railway has been substantially refurbished and extended. The brickmaking activities previously identified in the land further to the north-west of the site across New Canterbury Rd also appear to have ceased; the quarry pits are being infilled and the land appears now used for residential purposes whilst the adjacent area to the north is vacant or in early stages of redevelopment followed by an area further to the north that has been developed for recreational purposes (sport complex).

TABLE 7.1 – AERIAL PHOTOGRAPH OBSERVATIONS AND SATELLITE IMAGERY

Year	Site Features	Surrounding Land Use
1956	The northern portion of the site is largely unchanged, and the residential allotments which form the south-western and south-eastern corners of the site are also largely unchanged. However, several previously existing residences in the central southern portion of the site have been demolished and commercial/industrial operations now extend across those areas.	The land surrounding the site is essentially unchanged, although two new facilities have been constructed on the vacant land previously identified further to the north-west of the site across New Canterbury Rd and the railway. A new facility has been also constructed further to the north of the site across Denison Rd.
1961	The site remains essentially unchanged, although it appears that one of the allotments to the south-east is also being used for the storage of timber products.	The land surrounding the site remains essentially unchanged; however, some of the factory complexes previously identified out of the site to the north and north-east along New Canterbury Road and one of the buildings to the south-east out of the site across Kintore Street have been or are being demolished. Few new medium-density residential units are now visible in scattered areas.
1970	The allotments along the eastern boundary of the site remain unchanged, however, the remainder of the site has been redeveloped with all previously existing buildings having been demolished and replaced with a new warehouse/factory complex.	The land surrounding the site is essentially unchanged, although a medium-density residential building has been constructed to the south-east out of the site across Kintore Street. Medium-density residential buildings have been also constructed on the land further to the north of the site across New Canterbury Road and on land further to the south-west.
1986	The site remains essentially unchanged, although one of the buildings in the previously existing buildings in the south-east of the site has been demolished and replaced with a new rectangular commercial style building.	The land surrounding the site is essentially unchanged, although the factory complex which was previously located on the land out of the site to the south across Hercules street has been demolished and redeveloped for residential purposes and what appears to be a school.

TABLE 7.1 – AERIAL PHOTOGRAPH OBSERVATIONS AND SATELLITE IMAGERY

Year	Site Features	Surrounding Land Use
1994	The site remains essentially unchanged	The land surrounding the site is essentially unchanged although facilities which were previously located on the land out of the site to the north-west across New Canterbury Road and the railway have been demolished and the land is being redeveloped for medium-density residential purposes.
2003	The site remains essentially unchanged	The land surrounding the site is essentially unchanged although a medium-density residential building has been constructed on land to the north out of the site across New Canterbury Road. Further, the factory complex which was previously located on the land out of the site to the west across the railway has been demolished and the land has also been redeveloped for medium-density residential purposes.
2014	The site remains essentially unchanged.	The land surrounding the site is essentially unchanged although a facility which remained on the land out of the site to the north-west across New Canterbury Road and the railway has been demolished and the land has been redeveloped for medium-density residential purposes. Further, the Dulwich Grove Light Rail Station has been installed in the low-lying area to the west of the site.
2016	The site remains essentially unchanged.	The land surrounding the site also remains largely unchanged

7.2 Section 149(2) Certificates

Section 149(2) Certificates were obtained from Inner West Council to determine if any restrictions have been placed on the land due to contamination related risks, and a copy of the certificates is provided in Appendix C. The certificates show that there are no notices under the provisions of the *Contaminated Land Management Act 1997* issued in relation to the site. Further, the site has not been subject to a Site Audit.

7.3 Historical Title Search

Copies of the historical land title transfers were obtained from the Land Titles Office, and are provided in Appendix D. A summary of the property ownership/occupants and their associated activities (where available, based on the title documentation and an internet search) is summarised in Table 7.2.

TABLE 7.2 – HISTORICAL LAND TITLE SUMMARY

Year	Registered Owner/Occupant
Lot 1 in DP 236603	
2002 - Present	Sam Sool Kim & Eun Hyung Shim
1994 - 2002	Albert Masri & Zeina Masri
1976 - 1994	London Trading Company Pty Ltd (clothing company)
1969 - 1976	Wolf Electric Tools (Australia) Pty Ltd
1967 - 1969	Harry Robert Oliver of Mosman (Builder)
1953 - 1967	Western Timber Co. Pty Ltd
1940 - 1953	Gaetano Peluso (Timber Merchant) (OF PART and later the WHOLE)
1944 - 1950	Sydney Coleman of Dulwich Hill (Member of the AIF) (OF PART)
1940 - 1944	Elizabeth Donnelly of Dulwich Hill (Widow) (OF PART)
1920 - 1940	John Thomas Ness of Dulwich Hill (Produce Merchant/Real Estate Agent)
Lot 2 in DP 236603	
2011 - Present	Nicholas Goumis & Fiona Goumis
2007 - 2011	Sam Sool Kim & Eun Hyung Shim
1998 - 2007	Aristidis Manthos & John Manthos
1993 - 1998	James Duncan Beaton Burns & Stewart Lawrence Graham
1986 - 1993	Esther Winifred Hinds ***LEASES*** 1976 - 1991 London Trading Co. Pty Ltd
1969 - 1986	Leonard John Hinds of Gordon (Company Director) ***LEASES*** 1976 - 1991 London Trading Co. Pty Ltd (clothing company)
1967 - 1969	Harry Robert Oliver of Mosman (Builder)
1953 - 1967	Western Timber Co. Pty Ltd
1940 - 1953	Gaetano Peluso of Petersham, Timber Merchant
1920 - 1940	John Thomas Ness of Dulwich Hill (Produce Merchant/Real Estate Agent)

TABLE 7.2 – HISTORICAL LAND TITLE SUMMARY

Year	Registered Owner/Occupant
Lot 3 in DP 236603	
2000 - Present	Villa Marketown Pty Ltd (clothing company) ***LEASES*** 2011 - 2014 Yves Gazi 2001 - 2006 Yves Gazi & Gereus Faransis
1993 - 2000	James Duncan Beaton Burns & Stewart Lawrence Graham
1986 - 1993	Esther Winifred Hinds ***LEASES*** 1976 - 1991 London Trading Co. Pty Ltd (clothing company)
1969 - 1986	Leonard John Hinds of Gordon (Company Director) ***LEASES*** 1976 - 1991 London Trading Co. Pty Ltd (clothing company)
1967 - 1969	Harry Robert Oliver of Mosman (Builder)
1953 - 1967	Western Timber Co. Pty. Ltd
1940 - 1953	Gaetano Peluso of Petersham, Timber Merchant
1920 - 1940	John Thomas Ness of Dulwich Hill (Produce Merchant/Real Estate Agent)
Lot 1 in DP 540366	
2000 - Present	James Duncan Beaton Burns & Stewart Lawrence Graham
1995 - 2000	Shackel Pty. Ltd
1987 - 1995	Ezio Cerroni, Frances Mary Cerroni, Emilio Cerroni & Vincenza Linda Cerroni
1973 - 1987	Samuel Saul Marshall of Double Bay (Company Director), Lawrence Investments Pty Ltd Sylvia Halperin of Dianella, WA. & Yvonne Renee Klaesi of Chatswood, both Married Women (Samuel. Saul Marshall's share transferred to Susan Nelly Hard of Randwick, Married Woman on 16/6/1978) ***LEASES*** 1985 to 1987 Hyman Brothers Pty Ltd (auctioneers) 1979 to 1982 Lightnin Mixers Pty Ltd (supplier of industrial mixing equipment) 1970 - 1978 Caroma Sales Pty Ltd (supplier of bathroom fittings)
1969 - 1973	Leonard John Hinds of Gordon (Company Director) ***LEASES*** 1970 - 1978 Caroma Sales Pty Ltd (supplier of bathroom fittings)
1967 - 1969	Harry Robert Oliver of Mosman (Builder)

TABLE 7.2 – HISTORICAL LAND TITLE SUMMARY

Year	Registered Owner/Occupant
1953 - 1967	Western Timber Co. Pty Ltd
1940 - 1953	Gaetano Peluso of Petersham, Timber Merchant
1920 - 1940	John Thomas Ness of Dulwich Hill (Produce Merchant/Real Estate Agent)
Lot 2 in DP 540366	
2000 - Present	James Duncan Beaton Burns & Stewart Lawrence Graham
1995 - 2000	Shackel Pty Ltd
1987 - 1995	Ezio Cerroni, Frances Mary Cerroni, Emilio Cerroni & Vincenza Linda Cerroni
1973 - 1987	Samuel Saul Marshall of Double Bay (Company Director), Lawrence Investments Pty Ltd Sylvia Halperin of Dianella, WA. & Yvonne Renee Klaesi of Chatswood, both Married Women (Samuel. Saul Marshall's share transferred to Susan Nelly Hard of Randwick, Married Woman on 16/6/1978) ***LEASES*** 1985 to 1987 Hyman Brothers Pty Ltd (auctioneers) 1979 to 1982 Lightnin Mixers Pty Ltd (supplier of industrial mixing equipment) 1970 - 1978 Caroma Sales Pty Ltd (supplier of bathroom fittings)
1967 - 1973	Harry Robert Oliver of Mosman (Builder) ***LEASES*** 1970 - 1978 Caroma Sales Pty Ltd (supplier of bathroom fittings)
1953 - 1967	Western Timber Co. Pty Ltd
1949 - 1954	Ada Selina Beadle of Dulwich Hill (Spinster) (OF PART)
1939 - 1949	John Robert Anderson of Dulwich Hill (Cleaner) (OF PART)
1918 - 1939	Johanna Anderson of Petersham (Widow) (OF PART)
1950 - 1953	Gaetano Peluso of Petersham (Company Director) (OF PART)
1943 - 1950	William Archibald Train of Dulwich Hill (Tramway Employee) (OF PART)
1910 - 1943	Minnie Lucy Train (wife of Archibald Train of Dulwich Hill, Labourer) (OF PART)
Lot 4in DP 542147	
2002 - Present	Betty Galelidakis (later Galelis)
2001 - 2002	George Galelidakis & Betty Galelidakis
1989 - 2001	Alekos Galelis & Aspasia Galetis
1974 - 1989	Nick Tsimboukis of Dulwich Hill (Dressmaker) & Barbara Tsimboukis (his wife)
1968 - 1974	Aston Leslie Norman Wilde of Wahroonga (Company Director) & Eileen May Wilde (his wife)

TABLE 7.2 – HISTORICAL LAND TITLE SUMMARY

Year	Registered Owner/Occupant
1933 - 1968	Ernest Edward Davison of Petersham (Newsagent) & Flora Mary Davison (his wife)
1929 - 1933	Andrew Sinclair of Haberfield (Gentleman)
Lot 3in DP 542147	
2006 - Present	Arthur Kazas
1971 - 2006	Milad Sorouni of Earlwood (Process Worker) & Zola Sorouni (his wife)
1968 - 1971	Aston Leslie Norman Wilde of Wahroonga (Company Director) & Eileen May Wilde (his wife)
1933 - 1968	Ernest Edward Davison of Petersham (Newsagent) & Flora Mary Davison (his wife)
1929 - 1933	Andrew Sinclair of Haberfield (Gentleman)
Lot 2in DP 542147 (numerous leases of shop premises & dwelling but not specified)	
1993 - Present	Tang Kuen Hung Wong
1989 - 1993	Taner Aydin, Ali Aydin, Turker Aydin & Gulumer Aydin
1970 - 1989	Bill Sclavenitis of Annandale (Shopkeeper), Fotini Sclavenitis (his wife) and Arthur Oremitis of Annandale (Shopkeeper) (Arthur Oremitis sold his share to the other owners on 20/1/1972)
1968 - 1970	Aston Leslie Norman Wilde of Wahroonga (Company Director) & Eileen May Wilde (his wife)
1933 - 1968	Ernest Edward Davison of Petersham (Newsagent) & Flora Mary Davison (his wife)
1929 - 1933	Andrew Sinclair of Haberfield (Gentleman)
Lot 1in DP 542147	
2004 - Present	Arnold Villegas Soliman
2000 - 2004	Shun Sun Kwan
1997 - 2000	Fromage Pty Ltd (manufacture/supplier of dairy foods)
1979 - 1997	Athina Christianos of Bexley (Machinist), Dina Kaliva (Machinist) & George Dimopoulos (Painter), both of Marrichville & Pitsa Waters of Deniliquin (Married Woman) ***LEASES*** 1981 - 1984 John Andary & Joseph Andary of shop & dwelling
1970 - 1979	Apostolos Dimopoulos of Marrickville (Bricklayer) & Emerfia Dimopoulos (his wife)
1968 - 1970	Aston Leslie Norman Wilde of Wahroonga (Company Director) & Eileen May Wilde (his wife)
1929 - 1933	Andrew Sinclair of Haberfield (Gentleman)

TABLE 7.2 – HISTORICAL LAND TITLE SUMMARY

Year	Registered Owner/Occupant
Lot 14, Section 4 in DP 932	
2007 - Present	Alan Walter Scott & Naomi Lea Scott
2005 - 2007	Ian David Fry
1995 - 2005	Audrey Fry
1955 - 1995	Jack Fry of Dulwich Hill (Biscuit Maker)
1930 - 1955	Charles Edward Fry of Dulwich Hill (Blacksmith)
Lot 4 in DP 540366	
1976 - Present	Chrysostomos Alemangos (Bishop) & Galini Karvelis (Nun) both of Marrickville
1956 - 1976	Western Timber Co. Pty Ltd
1952 - 1956	John George Harper of Marrickville (Inspector/Traveller)
1922 - 1952	Hannah Maria Hayward of Marrickville (Widow)
Lot 7 in DP 236603	
2014 - Present	Devonshire IMS Pty Ltd
1990 - 2014	George Ghinis
1987 - 1990	Apex Improvement Services Pty Ltd
1971 - 1987	Ganis Pty Ltd ***LEASES*** 1974 to 1990 Lightnin Mixers Pty Ltd 1971 to 1974 Atlas Air Conditioning Pty Ltd
1969 - 1971	Dawes Investments Pty Ltd
1967 - 1969	Harry Robert Oliver of Mosman (Builder)
1953 - 1967	Western Timber Co. Pty Ltd
1949 - 1954	Ada Selina Beadle of Dulwich Hill (Spinster) (OF PART)
1939 - 1949	John Robert Anderson of Dulwich Hill (Cleaner) (OF PART)
1918 - 1939	Johanna Anderson of Petersham (Widow) (OF PART)
1947 - 1953	Gaetano Peluso of Petersham (Timber Merchant) (OF PART)
1939 - 1947	Marion Pocock & Elsie Pocock both Leichhardt (Spinsters) (OF PART)
1910 - 1939	Seina Pocock (Wife of John Pocock of Paddington, Builder) (OF PART)
Lot 6 in DP 236603	
2003- Present	Panteli Vardakas ***LEASES*** 2014 to 2016 Bryant's Bookkeeping Services Pty Ltd
1991 - 2003	Maria Vardakas
1987 - 1991	Apex Improvement Services Pty Ltd ***LEASES*** 1974 to 1990 Lightnin Mixers Pty Ltd (supplier of industrial mixing equipment)

TABLE 7.2 – HISTORICAL LAND TITLE SUMMARY

Year	Registered Owner/Occupant
1971 - 1987	Ganis Pty Ltd ***LEASES*** 1974 to 1990 Lightnin Mixers Pty Ltd (supplier of industrial mixing equipment) 1968 to 1974 Atlas Air Conditioning Pty Ltd
1968 - 1971	Dawes Investments Pty Ltd ***LEASES*** 1968 to 1974 Atlas Air Conditioning Pty Ltd
1967 - 1968	Harry Robert Oliver of Mosman (Builder)
1953 - 1967	Western Timber Co. Pty Ltd
1935 - 1955	Mary Elizabeth Mulqueeny (Wife of Sydney Michael Mulqueeny of Manly, Postal Officer) (OF PART)
1919 - 1935	Esther Beatrice Gwyther of Dulwich Hill (Spinster) (OF PART)
1943 - 1953	Gaetano Peluso of Petersham (Timber Merchant) (OF PART)
1931 - 1943	George Lewis Eves of Wentworth Falls (Gentleman) (OF PART)
Lot 5 in DP 236603	
2001- Present	Frank Saya
2000 - 2001	Peter John (Bishop) & Sarah Louise (Bishop)
1998 - 2000	Geoffrey Robert King
1968 - 1998	King & Tweeddale Pty Ltd, (later Buna Pty Ltd) (printing company)
1967 - 1968	Harry Robert Oliver of Mosman (Builder)
1966 - 1967	George Wills Co. Ltd (OF PART)
1917- 1966	William Joseph Dargan of Newtown (Locomotive Driver) (OF PART))
1955 - 1967	Western Timber Co. Pty Ltd. (OF PART)
1935 - 1955	Mary Elizabeth Mulqueeny (Wife of Sydney Michael Mulqueeney of Manly, Retired Postal Officer) (OF PART)
1919 - 1935	Esther Beatrice Gwyther of Dulwich Hill (Spinster) (OF PART)

7.4 NSW EPA Records

The EPA contaminated land public register was inspected on 8 May 2017 to determine if any notices have been issued for the site by EPA under the *Contaminated Land Management Act 1997* (CLM Act) or if the site is registered under the Protection of the Environment Operations Act 1997 (POEO Act). Our review shows that the site is not listed under the provisions of these Acts.

However, the search did show that two properties, one located approximately 120 m north-west of the site at 115-117 Constitution Road and other located approximately 350 m north-east of the site at 194 Denison Road, are listed on EPA's database of properties for which a notification has been received (under the provisions of the CLM Act 1997) (List of NSW Contaminated Sites Notified to EPA due to site contamination as of 05 April 2017), these being a Former Tyre Recapping and the Denison Road Playground. The results of the search also show that the EPA has completed an assessment of the contamination and decided that regulation under the *Contaminated Land Management Act 1997* for these properties is not required.

The search shows a premise located approximately 330 m east of the site listed within the POEO Public Register and for which a penalty notice has been issued, this being 3 Star Dry Cleaners at 465 Marrickville Road. This premise is listed due to the consignor fail to retain required records as prescribed under the provisions of the *POEO (Waste) Regulation 2014*. Further, a premise located approximately 4.1 km south-west of the site is listed within the POEO Public Register and for which a licence has been issued, this being Inner West Demolition Pty Ltd at 532-536 Canterbury Road, Campsie. This premise is licenced to transport Category 1 trackable waste.

It is noted that the abovementioned listed premises are either not being regulated as it was not considered necessary by EPA after completing an assessment of the contamination, located a considerable distance from the site and/or are down-gradient, in which case any soil or groundwater impacts that may have occurred on the listed properties is not likely to have affected the site subject to this PSI.

7.5 SafeWork NSW Records

SafeWork NSW was requested to search their Dangerous Goods License database to identify if the site is currently, or has previously been, licensed for the storage of dangerous or hazardous goods. The response provided by SafeWork NSW is presented in Appendix E. Information provided by SafeWork NSW shows that they hold no records in relation to the site.

7.6 Anecdotal Information

During the site inspection we were advised by the tenant of Patrick's Tailoring/Alterations that the building at 36 Hercules Street on the site was occupied by a kitchen factory before operating as a tailoring shop.

7.7 Site History Summary

Based on the available historical information the northern portion of the site has been used for commercial/industrial purposes since at least the 1930s, whilst the southern portion comprised residential allotments before being progressively redeveloped for commercial/industrial purposes between the late 1940s and 1950s. Substantial redevelopment also occurred between 1961 and 1970 with the demolition of a number of previously existing small buildings and the construction of a new larger commercial/industrial complex. Since the 1970s the configuration of the site has remained largely unchanged to the present day.

Further, the site appears to have been used for a range of commercial/industrial activities, with key known or expected uses comprising timber storage and carpentry/fabrication, the storage and sale of power tools/industrial mixing equipment, bathroom fittings, floor coverings and sewing machines, the production/sales of dairy foods and chocolates, clothing storage/manufacture and alterations, printing and general warehousing. In addition, portions of the site have been known to have been occupied by takeaway food outlets, a photographic studio, a fitness shop and a church.

8. APPRAISAL OF POTENTIAL CONTAMINATION SOURCES

Based on our site history review and site inspection, an appraisal of the potential contamination risk at the site was performed, the results of which are summarized in Table 8.1 below.

TABLE 8.1 – CONTAMINATION RISK ANALYSIS

Source	Location	Contamination Pathway Analysis	Potential for Impacts
History of commercial/ light industrial land use	Whole site since at least the 1930s.	The site has been used for a range of commercial/industrial activities for over 80 years. Whilst no heavy industrial processes are expected to have occurred at the site, it is likely that small quantities of chemical products have been used/stored in association with the activities that are known or expected to have occurred at the site. In view of this, there is the potential for the near surface soils to be chemically impacted due to leaks or spills of chemical products.	Moderate potential for soil impacts to have occurred which are significant for a mixed commercial and high-density residential land use setting.

TABLE 8.1 – CONTAMINATION RISK ANALYSIS

Source	Location	Contamination Pathway Analysis	Potential for Impacts
Presence of imported fill material	Across the majority of the site	The site is confirmed to have been filled with imported soil material for levelling purposes. As the origin of the imported soil cannot be confirmed it has the potential to be contaminated.	Moderate potential for imported soils to be chemically impacted at levels that would be significant for a mixed commercial and high-density residential use.

9. DATA QUALITY OBJECTIVES

The *National Environment Protection (Assessment of Site Contamination) Measure 1999* (NEPM) (updated April 2013) and *Australian Standard (AS) 4482.1-2005* recommend that data quality objectives (DQOs) be implemented during the investigation of potentially contaminated sites. The DQO process described in AS 4482.1-2005 outlines seven distinct steps which are designed to ensure an investigation is performed in a structured and efficient manner. The seven steps and the associated processes that were implemented to ensure data and decision making quality are outlined below:

Step 1 – State the Problem

The site is proposed to be redeveloped for a mixed commercial and high-density residential use. However, prior to this assessment there was insufficient data to determine if the site is likely to be suitable to for this end use in its current condition.

Step 2 – Identify the Decision

To determine if the concentrations of contaminants in the soil at the site present an unacceptable risk to human-health or the environment for a mixed commercial and high-density residential land use setting.

Step 3 – Identify Inputs to the Decision

To enable a decision regarding the contamination status of the site to be made, the following inputs were required:

- A site inspection and comprehensive review of the land use history;
- Soil sampling from six boreholes, positioned at evenly spaced locations across the site;

- Analysis of the soil samples for a broad screen of potential contaminants, including key contaminants of potential concern; and
- Implementation of a quality assurance/quality control (QA/QC) program.

Step 4 – Define the Study Boundaries

The assessment was undertaken within the boundaries of the site, which is the land at 466-480 New Canterbury Road and 26-38 Hercules Street, Dulwich Hill, NSW. The boundaries of the site are defined in Section 3 and are shown on Drawing No. 17/0376/1.

Step 5 – Develop a Decision Rule

To determine if any soil impacts at the site are significant for a mixed commercial and high-density residential land use setting, data were compared to relevant EPA endorsed criteria. The criteria for this assessment are further discussed in Section 12.

Step 6 - Specify Limits on Decision Errors

To ensure the precision, accuracy, completeness and comparability of data a field QA program was implemented and acceptable error limits were defined. These are further discussed in Section 11.

Step 7 – Optimize the Design for Obtaining Data

To ensure there are sufficient, reliable data to enable the project objectives to be met the following was implemented:

- Obtaining soil samples from an appropriate number of locations to provide a preliminary screen of the approximately 5 000 m^2 site for potential soil impacts in accordance with EPA guidelines;
- The collection of an appropriate number of samples from each location and the analysis of samples for an appropriate analytical suite to screen the site for potential soil contamination, based on the potential contamination sources identified from our site inspection, site history review and EPA/national guidelines; and
- Collection, storage and transport of soil samples in an appropriate manner to ensure sample integrity (refer to Section 10).

10. FIELD INVESTIGATION

The field activities for the investigation were undertaken by STS GeoEnvironmental between 23 February and 10 March 2017. The assessment was performed in accordance with:

- EPA guidelines comprising:
  - *Contaminated Sites: Sampling Design Guidelines, 1995*;
  - *Contaminated Sites: Guidelines for Consultants Reporting on Contaminated Sites,1997;*
  - *Contaminated Sites: Guidelines for the NSW Site Auditor Scheme (2nd Edition), 2006*;
  - *Managing Asbestos In or On Soil, March 2014.*
- Guidelines issued under Schedule B of the *National Environment Protection (Assessment of Site Contamination) Measure 1999* (NEPM), Environment Protection and Heritage Council (EPHC)/National Environment Protection Council (NEPC), December 1999 (and updated NEPM of April 2013);
- *Australian and New Zealand Guidelines for the Assessment and Management of Contaminated Sites* published by the Australian and New Zealand Environment and Conservation Council/National Health and Medical Research Council, January 1992 (ANZECC Guidelines);
- *Australian Standard 4482.1-2005: Guide to the Investigation and Sampling of Sites with Potentially Contaminated Soil – Part 1: Non-volatile and Semi-Volatile Compounds, 2 November 2005,* Standards Australia;
- *Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia,* Western Australian Department of Health (WA DOH), 2009; and
- *CRC Care Technical Report No. 10: Health Screening Levels for Petroleum Hydrocarbons in Soil and Groundwater* (Friebel, E & Nadebaum, P 2011).

10.1 Soil Sampling

The sampling program involved the collection of soil samples from a total of six boreholes positioned at evenly spaced locations across the site. This is a sufficient number of sampling locations to provide a preliminary screen of the approximately 5 000 m^2 site for potential soil impacts in accordance with EPA guidelines and the NEPM.

Locations for soil sampling were identified based on the information gained from the historical review and site inspection. Sample locations were referenced to existing ground features and positioned subject to on-site services, subsurface conditions and other constraints, which were encountered during fieldwork activities. The samples were collected by qualified and experienced environmental engineer. The sample locations and site features are shown on Drawing No. 17/0376/2.

A description of the samples collected and the soils profiles from which they were retrieved are provided on soil profile log sheets in Appendix F.

10.1.1 Soil Sample Handling and Equipment Decontamination

A hand auger and a drill rig with solid rotary augers were used to advance the six boreholes, and soil samples were retrieved directly from the auger head by hand using disposable latex gloves. Following collection, the samples were transferred into new laboratory-supplied clean glass jars and 500 ml plastic zip lock bags provided by Australian Laboratory Services (ALS). No sample mixing was carried out to ensure the integrity of the samples and to minimize the potential loss of volatile compounds from the soil matrix.

All sampling equipment was decontaminated prior to use and between sampling locations by washing with a mixture of water and DECON 90, followed by a rinse with potable water. Further, all sample jars were filled with zero headspace and placed into an esky filled with ice, and transferred to the ALS for analysis. Chain of Custody (COC) documentation was used to record and track the samples, and is provided in Appendix G.

COC documentation detailing the required analyses accompanied the samples to the laboratory. The environmental engineer signed the appropriate section of the COC form before submitting the samples to the laboratory.

10.1.2. Analytical Program for Soil Samples

The selection of analytes was based on the site history review, observations made during our site inspection along with EPA and NEPM site assessment guidelines. Selected soil samples were analysed for a broad screen of potential chemical contaminants including heavy metals (As, Cd, Cr, Cu, Hg, Ni, Pb, Zn), total petroleum hydrocarbons (TPHs), monocyclic aromatic hydrocarbons (MAHs), polycyclic aromatic hydrocarbons (PAHs), organochlorine pesticides (OCPs), organophosphorus pesticides (OPPs), phenolic compounds, polychlorinated biphenyls (PCBs), volatile chlorinated hydrocarbons (VOCs) and asbestos.

The analytical program for the soil samples is outlined in the COC documentation, which is provided in Appendix G. ALS Sydney was selected as the primary analytical laboratory, and ALS Brisbane was selected as the secondary laboratory for implementation of the field quality assurance program. Both ALS Sydney and Brisbane are NATA accredited for the analyses performed.

10.1.3. Qualitative Soil Vapour Survey

During the soil sampling program, the concentrations of ionisable volatile organic compounds (VOCs) released from the soil matrix were measured using a photoionisation detector (PID). This provides a qualitative screen of the degree to which the soil samples may be impacted with VOCs. The screening methodology involved the placement of a small portion of each sample (up to approximately 250g) into a sealed plastic 'snaplock' bag, which is kept at room temperature and out of direct sunlight for 10-20 minutes prior to taking a PID reading from the headspace above the sample. The PID was calibrated in-house by STS using a 100-ppm isobutylene span gas prior to use.

The PID readings obtained during the soil vapour survey are presented in the soil profile and sampling log sheets, provided in Appendix F. The concentration of ionisable vapours measured in the headspace above the soil ranged from 0.6 ppm to 3.1 ppm (v/v isobutylene equivalent), which are low and suggest that the soil is not impacted with VOCs.

11. QUALITY ASSURANCE PROGRAM

Quality assurance (QA) of data was a key component of this investigation to appraise the representativeness and integrity of samples and accuracy and reliability of the analytical results. This is in accordance with the NEPM and AS 4482.1-2005.

The QA procedures, actions and checks implemented during the investigation included:

- The utilisation of appropriate sampling methods in accordance with EPA requirements, the NEPM and other key guidelines;
- Appropriate sample handling and transportation, and analysis of samples within recommended analytical holding times;
- The collection and analysis of quality control (QC) samples;
- Implementation of internal laboratory QC analyses; and
- The use of a National Association of Testing Authorities (NATA) registered laboratories (primary and secondary) and methods.

11.1 Quality Control Sampling

Inaccuracies in sampling and analytical programs can result from many causes, including collection of unrepresentative and inhomogeneous samples, cross contamination between samples, unanticipated interferences between elements during laboratory analyses, equipment malfunctions and operator error. Inappropriate sampling, preservation, handling, storage and analytical techniques can also reduce the precision and accuracy of results.

In order to address these potential data quality issues, a field-based QC program was undertaken to measure the effectiveness of the QA procedures through a comparison with acceptance criteria. The NEPM has documented procedures for QC sampling and analysis to ensure that the required level of accuracy and precision is obtained. The NEPM and EPA guidelines recommend the use of two analytical laboratories for the implementation of a field QC program in addition to the internal QC procedures that are required to be followed by the laboratories in accordance with their NATA registration.

According to the NEPM the collection of intra- and inter-laboratory duplicate samples is required, along with blank samples. Intra-laboratory and inter-laboratory samples are duplicates of primary samples that are collected in the field. Intra-laboratory samples are analysed by the primary laboratory and are used as a check on the precision of the sampling and analytical procedures. Inter-laboratory samples are analysed by a secondary laboratory and provide a check of the accuracy of the analytical data.

Field blank samples include rinsate blanks and trip blank samples. Rinsate blanks are samples of water collected from field equipment after decontamination, and are used to determine the effectiveness of the decontamination procedures. Trip blanks are a clean sample of a matrix (in this case soil) prepared prior to the sampling event, and are stored and transported with the samples. They are used to identify laboratory errors or to identify sources of contamination due to sample storage and handling.

According to the NEPM, a split of a minimum of 10% of the primary samples as field duplicate samples (5% inter-laboratory and 5% intra-laboratory) as well as blank samples is required. Where less than 20 samples are to be analysed, a minimum of two field duplicate samples (one inter-laboratory and one intra-laboratory sample) and a blank sample is generally considered sufficient. Blanks are generally collected on each day that sampling is performed, and are analysed where necessary.

For this investigation the following field quality control samples were collected and analysed:

- One intra-laboratory duplicate soil sample;
- One inter-laboratory duplicate soil sample;
- One rinsate blank for soil samples; and
- One trip blank for soil sample;

In addition, STS places an emphasis on implementing robust field-based decontamination procedures and sample collection/storage strategies. These are outlined in Section 10. By implementing the documented procedures STS is considers that the accuracy and precision of the soil data used in this assessment has not been compromised.

11.2 Quality Control Criteria

A check on the comparability of the field duplicate sample results is achieved by calculating the Relative Percent Difference (RPD). RPDs are calculated as the absolute value of the difference between the primary and duplicate sample results, divided by the average value, expressed as a percentage.

According to AS 4482.1-2005 (and referenced in the NEPM) RPDs below 50% are considered to demonstrate a good correlation between duplicate sample results. However, AS 4482.1-2005 also states that the acceptable variation between results can be higher for organic analytes than for inorganics, and for low concentrations of analytes. In view of this, and based on STS Geoenvironmental's experience, RPDs of up to 70% are considered to be acceptable for organic species. RPDs of 100% or greater demonstrate a poor correlation, unless results are less than five times the analytical laboratory limits of reporting (LOR).

11.3 Laboratory Quality Control

A laboratory QC program involves the preparation and analysis of the analytical laboratory's own duplicate samples, reagent blanks and control samples (where the analyte concentration is known) or matrix spikes. Duplicate samples are subjected to the same preparation and analytical procedures as primary samples. The laboratories are required to analyse matrix spikes or control samples at a minimum frequency of 5% of the total number of primary samples in each sample batch.

The results of method blanks, duplicates and control sample analyses are compared by the laboratory to established quality assurance criteria for data precision and accuracy. If the results do not meet the laboratory's criteria, then the analyses should be repeated. The relevant criteria are:

- Method blanks should not return any positives on analysis;
- Duplicate samples should not vary by more than 35% from the mean result; and
- Control samples should generally give a recovery of between 75% and 125%.

12. ASSESSMENT CRITERIA

The *National Environmental Protection (Assessment of Site Contamination) Measure 1999* (NEPM) (latest version dated 2013) is the key national guideline on the assessment and management of site contamination, and which is endorsed by the NSW EPA and the equivalent regulatory authorities in other Australian states.

The key NEPM criteria comprise Health-Based Investigation Levels (HILs) and the Ecologically-Based Investigation Levels (EILs)/Environmental Screening Levels (ESLs). The HILs are threshold values that are indicative of potential adverse impacts to human health, whilst the EILs/ESLs are values that indicate a potential phytotoxic effect to plants and are also designed to be protective of the environment generally.

The use of the EILs requires key soil chemistry data, specifically the pH and Cation Exchange Capacity (CEC) of the soils on a particular site, and in some cases the percentage of the clay content of the soil. In the absence of pH and CEC data the original EILs from the previous (1999) version of the NEPM may still be used as a screening tool for the evaluation of potential adverse (phytotoxic) impacts to plants.

The 2013 NEPM outlines criteria for key volatile hydrocarbon compounds which are designed to be protective of human-health via a soil vapour inhalation exposure pathway (termed Health Screening Levels (HSLs)). The 2013 NEPM criteria should be used for environmental assessments in the Australian context as they are the most current and comprehensive set of screening criteria available.

There are four main categories of HIL outlined in the 2013 NEPM, which are each used to appraise the risks posed by site contamination for different land use settings. These include:

HIL Residential A: for a 'standard' residential land use with garden and accessible soil, including children's day care centres, preschools and primary schools;

HIL Residential B: for a residential land use with minimal opportunities for soil access, including properties with fully and permanently paved yard space such as high-rise apartment buildings and flats;

HIL Recreational C: for public open spaces such as parks, playgrounds, playing fields (e.g. ovals), secondary schools and footpaths, but excluding undeveloped public open space; and

HIL Commercial/Industrial D: for a commercial/industrial land use such as shops, offices, factories and industrial sites.

The HSLs outlined in the NEPM also include thresholds for the different land use settings as defined above, however, a combined set of criteria is provided that is to be applied for both Residential A and B land use settings. With regard to the EILs and ESLs, a three-tiered set of criteria are provided for land uses including a) areas of ecological significance, b) urban residential and public open space, and c) commercial industrial.

The 2013 NEPM also outlines 'management limits' for petroleum hydrocarbons in soil which are designed to be thresholds which minimise the potential for light non-aqueous phase liquids (LNAPL) formation, fire and explosive hazards and penetration/damage to below ground infrastructure by hydrocarbons. These criteria are considered key when evaluating immediate impacts to human-health and the environment and also long-term potential impacts associated with the on-site containment of contamination.

It is noted that the NEPM HILs do not include criteria for petroleum hydrocarbons, however, CRC Care's *Technical Report No. 10: Health Screening Levels for Petroleum Hydrocarbons in Soil and Groundwater* (Friebel and Nadebaum, 2011) does provide health-based screening levels for key petroleum hydrocarbons based on the direct contact with soil which may be used as alternative screening criteria. The 1999 NEPM also provides threshold HIL values for petroleum hydrocarbon fractions that may be adopted provided that speciation testing is undertaken for specific aromatic and aliphatic components.

Where a proposed land use will include more than one land use category (e.g. mixed residential/commercial development) the criteria which are protective of the most sensitive of the combined land uses should be adopted.

12.1 Soil Criteria For This Investigation

As discussed in Section 2, we understand that the site is proposed to be redeveloped for a mixed commercial and high-density residential land use, which will involve the demolition of the majority of existing structures and the construction of a new eight story residential unit building with mixed commercial and residential ground floor and residential units above. We also understand that two or three levels of basement car parking are proposed, which will require the bulk excavation of the majority of the site to depths between 4 m and 9 m below the existing land surface. However, two small unexcavated areas will remain in the west and south eastern corners of the site as landscaping and/or garden zones, and an existing church which occupies the south-east of the site would also be retained.

In view of this, the NEPM HIL B criteria, which are designed to be protective of human-health for a high-density residential land use setting are the most appropriate and have been adopted for this investigation. In addition, the CRC Care Health Screening Levels (HSLs) for direct contact with soils in a high-density residential land use setting (HSL-B Criteria) have been used.

With regard to evaluating potential vapour intrusion risks, the NEPM HSL combined A and B criteria (for low-high density residential settings) have also been adopted. Specifically, the HSLs for clay soils have been used given that the soil strata beneath the site predominantly comprises clays. Further, the NEPM 'management limits' for residential, parkland and open spaces uses have also been adopted as screening criteria. Given that two small unexcavated areas in the west and south eastern corners of the site are expected to remain unsealed land post redevelopment, the NEPM EILs and ESLs have also been adopted to evaluate the potential for adverse impacts to plants and the general environment. In the absence of site specific pH and CEC data, the 1999 NEPM EILs have been used. With regards to the ESLs and management limits, the criteria that are applicable for fine texture grade/clay soils have been used given that the soils on the site have been confirmed to predominantly comprise clays.

The soil criteria which have been used for this investigation are outlined in Table 12.1 below.

TABLE 12.1 – SITE SOIL ASSESSMENT CRITERIA

Contaminant	NEPM 2013 HIL B [(1)] / HSL (Residential A & B) [(2)]	NEPM 2013 EIL/ESL (Urban Residential and Public Open Space) [(3)]	CRC CARE 2011 HSL-B Direct Soil Contact (Residential B) [(4)]	NEPM 2013 Management. Limits Residential, Parkland & Public Open Space) [(5)]
Inorganics				
Arsenic	500	100 (e)		
Cadmium	150	3 (f)		
Chromium	500 (a)	400 (f), (g)		
Copper	30000	100 (f)		
Lead	1200	600 (f)		
Mercury	120 (b)	1 [(b), (f)]		
Nickel	1200	60 (f)		
Zinc	60000	200 (f)		
Bonded asbestos	0.04% (w/w) (c)			
Friable Asbestos	0.001% (w/w) (c)			
Asbestos fibres	No detectable (c)			
Organics				
TPH (C_6-C_{10})			5600	
TPH (C_{10}-C_{16})			4200	
F1 TPH (C_6-C_{10}) (k)	50 (d)	180 (h)		800 (j)
F2 TPH (C_{10}-C_{16}) (l)	280 (d)	120 (h)		1000 (j)
F3 TPH (C_{16}-C_{34})		1300 (h)	5800	3500 (j)
F4 TPH (C_{34}-C_{40})		5600 (h)	8100	10000 (j)

TABLE 12.1 – SITE SOIL ASSESSMENT CRITERIA

Contaminant	NEPM 2013 HIL B [1] / HSL (Residential A & B) [2]	NEPM 2013 EIL/ESL (Urban Residential and Public Open Space) [3]	CRC CARE 2011 HSL-B Direct Soil Contact (Residential B) [4]	NEPM 2013 Management. Limits Residential, Parkland & Public Open Space) [5]
Organics				
TPH (C_6-C_{10})			5600	
TPH (C_{10}-C_{16})			4200	
F1 TPH (C_6-C_{10}) (k)	50 (d)	180 (h)		800 (j)
F2 TPH (C_{10}-C_{16}) (l)	280 (d)	120 (h)		1000 (j)
F3 TPH (C_{16}-C_{34})		1300 (h)	5800	3500 (j)
F4 TPH (C_{34}-C_{40})		5600 (h)	8100	10000 (j)
Benzene	0.7 (d)	65 (h)	140	
Toluene	480 (d)	105 (h)	21000	
Ethylbenzene		125 (h)	5900	
Xylenes	110 (d)	45 (h)	17000	
Naphthalene	5 (d)	170 (e)	2200	
Benzo(a)pyrene		0.7 (h)		
Carcinogenic PAHs	4			
Total PAHs	400			
Hexachlorobenzene	15			
Heptachlor	10			
Chlordane	90			
Endrin	20			
Endosulfan	400			
Methoxychlor	500			
DDT+DDD+ DDE	600	180(e), (i)		
Aldrin + Dieldrin	10			
Chlorpyrifos	340			
Phenols	45000			
Pentachlorophenol	130			
PCBs	1			

Notes: *All criteria in mg/kg concentrations unless otherwise specified*

(1) NEPM (2013) – Schedule B1 – HILs for Soil Contaminants – Residential B - Table 1A (1).
(2) NEPM (2013) – Schedule B1 – HSLs for Vapour Intrusion – HSL A & B Low/High Density Residential -Table 1A (3.)
(3) NEPM (2013) – Schedule B1 – Soil EILs and ESLs – Urban Residential and Public Open Space – Tables 1B (5) and 1B (6).
(4) CRC CARE (2011) – Technical Report No. 10 – Soil HSLs for Direct Contact – HSL B High Density Residential – Table B4.
(5) NEPM (2013) – Schedule B1 – Management Limits for TPH Fractions F1-F4 in Soil – Table 1B (7).
(a) Criterion for chromium VI.
(b) Criterion for inorganic mercury.
(c) WA DOH 2009/NEPM 2013 HSLs for asbestos in soil, (NEPM 2013 - Schedule B1 - Table 7).
(d) NEPM 2013 HSL criterion for vapour intrusion, 0-1m depth in clay soils
(e) NEPM 2013 generic EIL
(f) NEPM 1999 EIL used where no generic NEPM 2013 criteria are available
(g) NEPM 2013 criterion for chromium III for soils with ≥ 10% clay content).
(h) NEPM 2013 ESL criterion for fine texture grade soils.
(i) Criterion for DDT.
(j) Criterion for fine texture grade soils
(k) F1 TPH = TPH (C6-C10) minus BTEX fraction.
(l) F2 TPH = TPH (C_{10}-C_{16}) minus naphthalene fraction

12.2 Waste Classification Criteria

In order to classify the soils on the site for landfill disposal purposes, the analytical results have been compared to the threshold values for the classification of non-liquid wastes presented in the NSW EPA's *Waste Classification Guidelines, Part 1: Classifying Waste* (Waste Guidelines). The criteria based on total concentrations only (CT1 vales) have been used for the majority of chemical species, however, the combined total and leachable concentrations (SCC1 and TCLP values) have also been used to determine the waste classification of lead. These criteria are outlined in Tables 1 and 2 of the Waste Guidelines.

13. ANALYTICAL RESULTS AND INTERPRETATION

The analytical results for the soil samples are presented in the NATA-endorsed laboratory reports included in Appendix H and are summarised in the Tables of Results attached to this report. The analytical results exceeding the assessment criteria are highlighted in the tables accordingly.

13.1 Human Health Risks

The analytical results show that the concentrations of organic and inorganic chemical contaminants in all samples tested are well below the NEPM HIL Residential B criteria, the NEPM HSLs and the CRC CARE HSL B criteria. That is, the concentrations of chemical contaminants measured in the soil samples are below criteria that are protective of human-health by way of dermal contact, ingestion and inhalation exposure pathways for a mixed commercial and high-density residential land use setting.

13.2 Environmental Risks

The analytical results also show that the concentrations of organic and inorganic chemical contaminants measured in the soil samples are generally low and below the NEPM EIL/ ESL criteria and the NEPM Management Limits, with the exception of lead, copper, zinc and mercury in four samples. The criteria exceedences are outlined below:

- The lead concentration (718 mg/kg) measured in sample S8 retrieved from the layer of near surface fill at sample location BH4, which was positioned in the east central portion of the site, is marginally above its NEPM EIL criterion of 600 mg/kg;
- The copper concentrations measured in sample S8 (257 mg/kg) and also in sample S12 (258 mg/kg) retrieved from the layer of near surface fill at sample location BH6, which was positioned in the north-west of the site are both above the adopted NEPM EIL criterion for copper of 100 mg/kg;

- The mercury concentration measured in samples S6 (1.3 mg/kg) retrieved from fill at sample locations BH3 is marginally above its NEPM EIL criterion of 1 mg/kg; and
- The zinc concentrations measured in samples S1 (231 mg/kg), S3 (735 mg/kg), S6 (398kg/mg), S8 (832 mg/kg) and S12 (229 mg/kg) which were retrieved from near surface topsoil or fill at sample locations BH1, BH3, BH4 and BH6 respectively, exceed the adopted NEPM EIL criterion for zinc of 200 mg/kg.

The abovementioned concentrations of copper, lead, mercury and zinc do not exceed the EIL criteria by a large margin and are at levels that would not be expected to be acutely phytotoxic to plants. Further, it is likely that the metals impacted soil would largely be removed from the site during the bulk excavation for the proposed basement car parking facility. However, further limited soil sampling is recommended at the time of redevelopment in order to confirm that the metals concentrations in the soils in the areas which are scheduled landscaping zones are at levels which would not present an unacceptable risk to plant health.

13.3. Risk of Groundwater Impacts

In view of the generally low concentrations of chemical contaminants measured in the soils on the site, that the soils comprise silty clays which are characterised by a low permeability that prevents downward leaching and that the depth to the regional aquifer is expected to range between 5 m to 10 m below the ground surface, the site is not expected to have contributed to unacceptable groundwater impacts.

13.4. Potential for Off-Site Migration of Contamination

In view of the generally low concentrations of contaminants measured in the soils on the site, and given that the entire site is covered with impervious concrete surfaces that protect the surficial soils from being mobilised as a result of surface runoff or wind action, off-site migration of chemically impacted soils by way of overland flow (ie runoff) or aeolian (wind-blown) transport is unlikely to have occurred. Further, as outlined in Section 13.2 above, the site is not likely to be a source of groundwater impacts which present an unacceptable risk to off-site receptors.

13.5. Duty to Report Site Contamination

Under the provisions of the *Contaminated Land Management Act 1997* (CLM Act), a site owner or occupant has a duty to notify EPA of any significant contamination that has the potential to cause human-health or environmental impacts. The requirements for reporting contamination are outlined in EPA's (2015) *Guidelines on the Duty to Report Contamination Under the Contaminated Land Management Act 1997*. This guideline outlines the specific triggers which need to be considered for notifiable contamination under the CLM Act.

For soil, the notification thresholds are the HILs and soil-based HSLs, which are outlined in Schedule B1 of the *National Environment Protection (Assessment of Site Contamination) Measure (NEPM) 1999* (NEPC 2013). Where contaminants in the soils on a particular site exceed their HIL criteria by more than 2.5 times in any one sample or where the average concentrations (ie 95% upper confidence limits of the arithmetic means of the contaminant concentrations) of contaminants in soil exceed the applicable HILs, **and** where exposure pathways exist, the EPA must be notified.

The Duty to Report Guidelines also apply the specific criteria for asbestos in soil that are provided in the NEPM, these being that notification would be required where friable asbestos from anthropogenic sources is present in the soil at a weight-based percentage which exceeds 0.001%. In addition, where a particular site is the source of contamination which results in the above being realised on adjacent land, EPA must also be notified. Further, it should be noted that the Duty to Report Guidelines do not define notification thresholds for all contaminants. EPA has advised that where no criteria are listed, the need to submit a notification (or otherwise) should be based on advice provided by an environmental consultant.

For groundwater or surface water, EPA must be notified if a) elevated concentrations of contaminants are identified to be above criteria which are protective of drinking water and ecosystem protection (adopted from the ADWG 2011 and ANZECC 2000 respectively) and also potential vapour intrusion (NEPM HSLs) b) where the contaminant concentrations will foreseeably remain above these criteria ***and*** c) where the groundwater impacts are due to sources on a particular site rather than being regional or background concentrations. Further, the presence of phase-separated hydrocarbons (PSH) on groundwater is an immediate notification trigger regardless of aqueous concentrations which may be present.

The Duty to Report Guidelines also provide notification criteria for soil gas, these being that notification is required where concentrations of contaminants in soil gas are equal to or above both the NEPM HSLs and the NEPM interim health investigation levels for volatile chlorinated compounds (the latter provided in Schedule B7 of the NEPM).

13.5.1 Appraisal of Duty to Report Requirements

The results of the soil sampling program performed for this investigation shows that the concentrations of chemical contaminants measured in the soil samples do not exceed the applicable notification thresholds. In view of this, the site does not satisfy the criteria for notifying EPA of land contamination under the provisions of the CLM Act based on currently available data.

13.6. Waste Classification

The analytical results for the soil samples are compared to EPA's Waste Guidelines criteria in Table B. The results show that the concentrations of chemical contaminants measured in the soil samples are generally low and below the CT1 threshold values for General Solid Waste (GSW), with the exception of lead which was measured in excess of its CT1 threshold for GSW (100 mg/kg) in samples S1 (292 mg/kg) and S6 (365 mg/kg). In addition, the lead concentrations measured in samples S3 (407 mg/kg) and S8 (718 mg/kg) are above the CT2 threshold for Restricted Solid Waste (RSW) of 400 mg/kg.

In order to evaluate the significance of the elevated lead concentrations, leachability (TCLP) testing was subsequently performed on the four abovementioned samples (S1, S3, S6 and S8). The results show that the leachable lead concentrations measured in all the three samples ranged from <0.1 mg/L to 0.2 mg/L, which is well below the TCLP1 threshold for GSW of 5 mg/L. Further, the total lead concentrations measured in the soil samples retrieved from across the site (22 mg/kg to 718 mg/kg), are below the SCC1 GSW threshold for lead of 1 500 mg/kg. That is, topsoil and the fill layer that occurs across the site would be classed as GSW for the purposes of landfill disposal.

13.7. Assessment Outcomes

Based on the results of this investigation and also that the site is proposed to be bulk excavated for a basement car parking facility as part of the proposed redevelopment, the site is likely to be made suitable for the proposed mixed commercial and high-density residential land use simply by developing the land in accordance with the current proposed plans. However, however given that a number of allotments which form part of the site were not able to be accessed during this investigation it is recommended that a thorough inspection of the site be undertaken by an environmental consultant at the time of redevelopment after the existing buildings and hardstand surfaces have been removed (when the underlying soils are exposed) in order to screen the site for potential soil impacts. In addition, given that the soil sampling performed as part of this investigation was preliminary in nature it is recommended that further limited soil sampling also be performed at the time of redevelopment to confirm that the concentrations of contaminants in the soils within the areas outside the footprint of the bulk excavation do not present an unacceptable risk to human-health or the environment.

All soil that is removed from the site during the proposed basement bulk excavation works must also be disposed of in accordance with regulatory requirements. The results of the soil sampling program have shown that the layer of near surface fill and topsoil that occurs across the site would not be suitable for beneficial reuse as clean fill, and any surplus volumes of this material that is produced during redevelopment will therefore need to be disposed of to a licensed landfill facility. The sampling results have also shown that the the fill/topsoil layer can be classed as GSW for this purpose.

It is also expected that the natural silty clay subsoil and underlying shale rock that will be excavated during construction of the basement could be classed as virgin excavated natural material (VENM), thus enabling this material to be beneficially reused as clean fill on other development sites. However, further soil sampling will need to be performed following the stripping of the fill/topsoil layer in order to confirm a VENM classification.

14. EVALUATION OF QUALITY ASSURANCE

14.1. Field Duplicate Sample Results

The results of the field intra and inter-laboratory duplicate sample analyses are compared to those of the corresponding primary samples in Table C. These show that the variations between the primary and duplicate sample concentrations exceed the allowable Relative Percentage Difference (RPD) criteria of 50% for inorganic species and 70% for organic analytes in only two of the 40 comparable data sets, which is an acceptable rate of correlation. The discrepancies encountered are expected to be due to the heterogeneous distribution of heavy metals within fill material. That is, the RPD discrepancies do not affect the outcome of the investigation.

14.2. Field Rinsate and Trip Blank Sample Results

The results of the rinsate and trip blank sample analyses are provided in Table D. No detectable contaminant concentrations were measured in the blank samples, which indicates that cross contamination between samples and sample locations is unlikely to have occurred during the sampling program.

14.3. Laboratory Quality Control Program

Our review of the laboratory's internal QC program has shown that the majority of internal duplicate samples, spike recoveries, surrogate standards and laboratory blanks were within the laboratories' recommended range for acceptable reproducibility. Therefore, STS considers the laboratory data obtained in the sampling program to be of acceptable precision, accuracy and reliability, and representative of the site conditions encountered.

14.4. Procedure-Based Quality Control

An appraisal of the key procedure-based quality control aspects of the investigation are summarized in Table 14.1 below.

TABLE 14.1 APPRAISAL OF PROCEDURE-BASED QUALITY CONTROL

Item	Compliance	Reference/Comments
Appropriate soil sampling methods adopted?	Yes	Refer to Section 10.1
Appropriate sample handling and transportation procedures implemented?	Yes	Refer to Section 10 and COC documentation in Appendix G
Samples analysed within recommended laboratory holding times?	Yes	Refer to COC documentation in Appendix G and laboratory reports in Appendix H
NATA accredited laboratory testing methods used?	Yes	Refer to laboratory reports in Appendix H

15. CONCLUSIONS AND RECOMMENDATIONS

Based on the results of this PSI the following conclusions and recommendations are made:

- The northern portion of the site is expected to have been used for commercial/industrial purposes since at least the 1930s, whilst the southern portion comprised residential allotments before being progressively redeveloped for commercial/industrial purposes between the late 1940s and 1950s. Substantial redevelopment also occurred between 1961 and 1970 with the demolition of a number of previously existing small buildings and the construction of a new larger commercial/industrial complex. Since the 1970s the configuration of the site has remained largely unchanged to the present day. Key activities that are known or expected to have occurred at the site include timber storage and carpentry/fabrication, the storage and sale of power tools/industrial mixing equipment, bathroom fittings, floor coverings and sewing machines, the production/sales of dairy foods and chocolates, clothing storage/manufacture and alterations, printing and general warehousing. In addition, portions of the site are known to have been occupied by takeaway food outlets, a photographic studio, a fitness shop and a church.
- The results of the soil sampling program performed as part of this investigation show that the concentrations of chemical contaminants measured in the soils on the site are generally low and at levels that would not be expected to present an unacceptable risk to human-health or the environment for a mixed commercial and high-density residential land use setting. In addition, the results of the soil sampling program show that the site is not expected to be the source of unacceptable groundwater impacts.

- Based on the results of this investigation and also that the site is proposed to be bulk excavated for a basement car parking facility as part of the proposed redevelopment, the site is likely to be made suitable for the proposed mixed commercial and high-density residential land use simply by developing the land in accordance with the current proposed plans. However, however given that a number of allotments which form part of the site were not able to be accessed during this investigation it is recommended that a thorough inspection of the site be undertaken by an environmental consultant at the time of redevelopment after the existing buildings and hardstand surfaces have been removed (when the underlying soils are exposed) in order to screen the site for potential soil impacts. In addition, given that the soil sampling performed as part of this investigation was preliminary in nature it is recommended that further limited soil sampling also be performed at the time of redevelopment to confirm that the concentrations of contaminants in the soils within the areas outside the footprint of the proposed bulk excavation are low and do not present an unacceptable risk to human-health or the environment for the proposed use of the land.
- All soil that is removed from the site during the proposed basement bulk excavation works must also be disposed of in accordance with regulatory requirements. The results of the soil sampling program have shown that the layer of near surface fill and topsoil that occurs across the site would not be suitable for beneficial reuse as clean fill, and any surplus volumes of this material that is produced during redevelopment will therefore need to be disposed of to a licensed landfill facility. The sampling results have also shown that the the fill/topsoil layer can be classed as GSW for this purpose. It is also expected that the natural silty clay subsoil and underlying shale rock that will be excavated during construction of the basement could be classed as virgin excavated natural material (VENM), thus enabling this material to be beneficially reused as clean fill on other development sites. However, further soil sampling will need to be performed following the stripping of the fill/topsoil layer in order to confirm a VENM classification.

16. LIMITATIONS

STS GeoEnvironmental Pty Ltd has performed its services for this project in accordance with its current professional standards. Laboratory analyses were undertaken as part of this investigation by Australian Laboratory Services, who are NATA accredited for the analyses performed. When assessing the extent of contamination across a site from a soil sampling program, there is the possibility that variations may occur between sample locations and the actual presence of contaminated material at the site may differ from that referred to herein, since no sampling program, no matter how comprehensive, can reveal all anomalies and hot spots that may be present.

The information collected for this investigation has been used to form an opinion about site contamination with regard to the proposed use of the site, this being a mixed commercial and high-density residential land use. If the nature of the proposed land use changes, the conclusions given in this report may need to be revised. Also, regulatory evaluation criteria are constantly changing and as a consequence, concentrations of contaminants presently considered low may, in the future, fall under different regulatory standards that may alter the outcome of this investigation. Opinions and judgments expressed herein, which are based on our understanding and interpretation of current regulatory standards, should not be construed as legal opinions. Further, our opinions outlined in this report are based purely on the results of a site inspection, site history review and soil sampling program performed by STS GeoEnvironmental Pty Ltd, the scope of which in defined in this report.

This document and the information herein have been prepared solely for the use of Angus Developments Pty Ltd for the purposes nominated in this report. No person or organization other than Angus Developments Pty Ltd are entitled to rely on any part of the report without the prior written consent of STS GeoEnvironmental Pty Ltd. Any third party relying on this report shall have no legal recourse against STS GeoEnvironmental Pty Ltd or its parent organizations or subsidiaries and shall indemnify and defend them from all and against all claims arising out of, or in conjunction with such use or reliance.

Written by:	Reviewed by:
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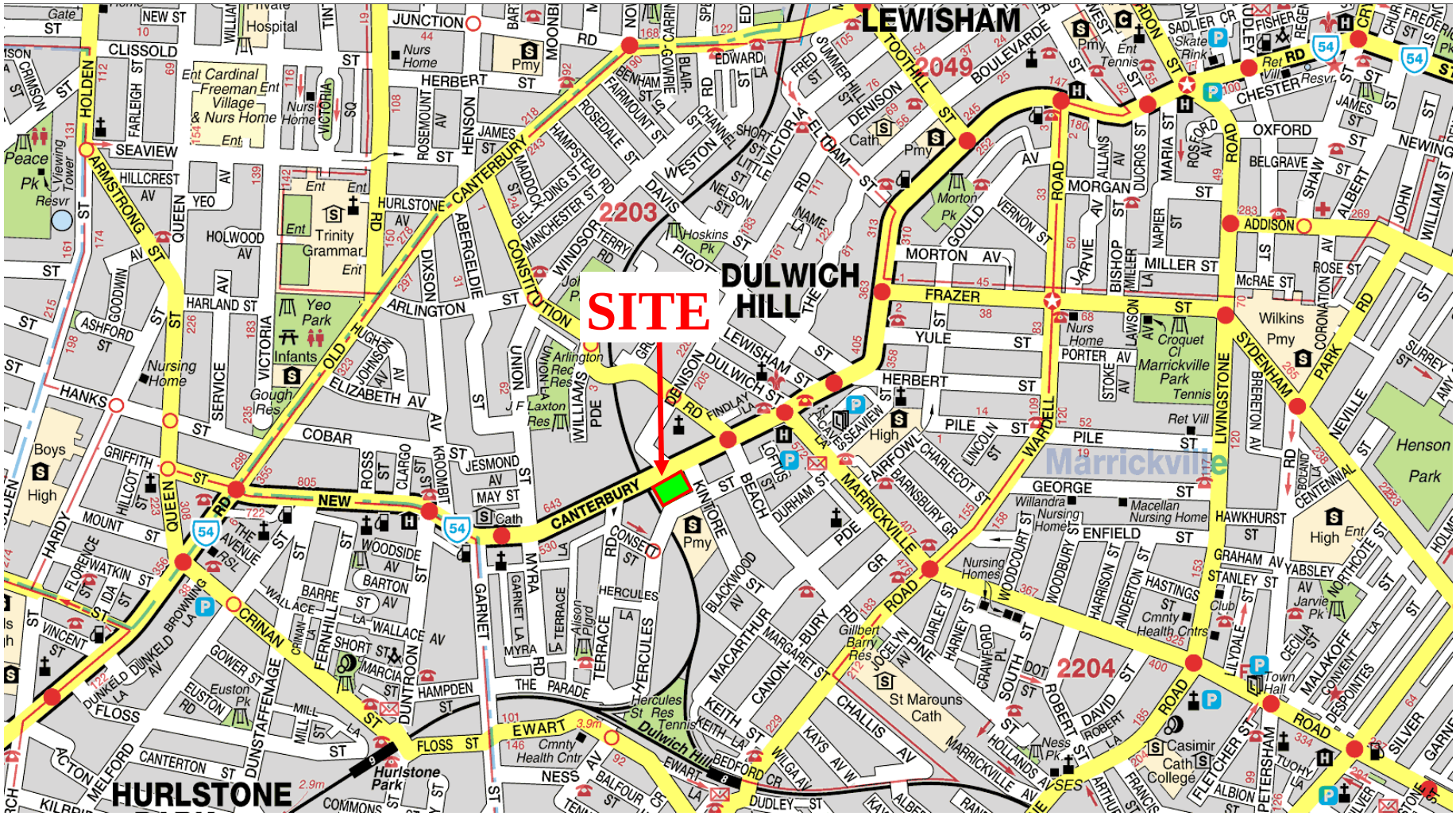
FIGURES



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STS GEOENVIRONMENTAL PTY LTD	Scale:1:17500 (at A4)	Date: May 2017
CLIENT: ANGUS DEVELOPMENTS PTY LTD		
PRELIMINARY SITE INVESTIGATION **Land at 466-480 New Canterbury Road & 26-28 Hercules Street, Dulwich Hill, NSW: Site Location**		Project No. 21192/7558C Drawing No: 17/0376/1

N

Legend

- Boundary of Site
- Extent of Areas in Legal Dispute and/or Process of Acquisition
- BH1 Soil Bore No.& Location (STS 2017 PSI)

STS GEOENVIRONMENTAL PTY LTD

STS GEOENVIRONMENTAL PTY LTD	Scale: 1:833 (at A4)	Date: May 2017
CLIENT: ANGUS DEVELOPMENTS PTY LTD		
PRELIMINARY SITE INVESTIGATION Land at 466-480 New Canterbury Rd, 26-28 & 34-38 Hercules St, Dulwich Hill, NSW: Site Features and Sampling Locations		Project No. 21192/7558C Drawing No: 17/0376/2

TABLES OF RESULTS

Table A Analytical Results for Primary Soil Samples

Analytes	Borehole No./ Site Location:	BH1	BH2	BH3	BH3	BH3	BH4	BH4	BH5	BH6	BH6	BH6	NEPM Background Ranges	NEPM 2013 HIL Residential B/ HSL A&B (Low -High Density Residential)	NEPM 2013 EILs/ ESLs (Urban Residential and Public Open Space)	CRC CARE 2011 HSL-B Residential (High Density) Direct Contact	NEPM 2013 Management Limits (Residential, Parkland & Public Open Space)
	Sample No.:	S1	S2	S3	S6	S7	S8	S9	S10	S11	S12	S13					
	Date Sampled:	10-Mar-17	10-Mar-17	10-Mar-17	10-Mar-17	10-Mar-17	10-Mar-17	10-Mar-17	10-Mar-17	10-Mar-17	10-Mar-17	10-Mar-17					
Metals																	
Arsenic		12	6	12	12	9	12	6	–	6	<5	<5	1-50	500	100 (f)		
Cadmium		2	2	<1	2	3	2	<1	–	2	2	<1	1	150	3 (g)		
Chromium		22	32	25	24	28	24	16	–	44	25	10	5-1000	500 (c)	400 (g),(h)		
Copper		35	<5	47	29	<5	257	14	–	25	258	5	2-100	30000	100 (g)		
Lead		292	22	407	365	24	718	97	–	24	83	24	2-200	1200	600 (g)		
Mercury		0.1	<0.1	0.7	1.3	<0.1	0.8	0.1	–	<0.1	0.1	<0.1	0.03 (a)	120 (a)	1 (a),(g)		
Nickel		4	<2	8	5	<2	11	3	–	31	30	<2	5-500	1200	60 (g)		
Zinc		231	11	735	398	<5	832	48	–	118	229	33	10-300	60000	200 (g)		
Monocyclic Aromatic Hydrocarbons (MAHs)																	
Benzene		<0.2	<0.2	<0.2	<0.2	–	–	–	<0.2	–	<0.2	–	0.05-1 (b)	0.7 (d)	65 (i)	140	
Toluene		<0.5	<0.5	<0.5	<0.5	–	–	–	<0.5	–	<0.5	–	0.1-1 (b)	480 (d)	105 (i)	21000	
Ethylbenzene		<0.5	<0.5	<0.5	<0.5	–	–	–	<0.5	–	<0.5	–			125 (i)	5900	
Xylenes		<0.5	<0.5	<0.5	<0.5	–	–	–	<0.5	–	<0.5	–		110 (d)	45 (i)	17000	
Napthalene		<1	<1	<1	<1	–	–	–	<1	–	<1	–		5 (d)	170 (f)	2200	
Total MAHs above detection limits		ND	ND	ND	ND	–	–	–	ND	–	ND	–					
Halogenated Aliphatic Compounds (HALCs)																	
Trichloroethene		–	<0.5	–	<0.5	–	–	–	–	–	<0.5	–					
1,1-Dichloroethane		–	<0.5	–	<0.5	–	–	–	–	–	<0.5	–					
Total HALCs above detection limits		–	ND	–	ND	–	–	–	–	–	ND	–					
Halogenated Aromatic Compounds (HARCs)																	
Total HARCs above detection limits		–	ND	–	ND	–	–	–	–	–	ND	–					
Trihalomethanes (THMs)																	
Total THMs above detection limits		–	ND	–	ND	–	–	–	–	–	ND	–					
Oxygenated Compounds (OCs)																	
Total OCs above detection limits		–	ND	–	ND	–	–	–	–	–	ND	–					
Sulfonated Compounds																	
Total SC above detection limits		–	ND	–	ND	–	–	–	–	–	ND	–					
Fumigants																	
Total fumigants above detection limits		–	ND	–	ND	–	–	–	–	–	ND	–					
Total Petroleum Hydrocarbons (TPHs)																	
Total C_6–C_{10}		<10	<10	<10	<10	–	–	–	<10	–	<10	–				5600	
Total C_{10}–C_{16}		<50	<50	<50	<50	–	–	–	<50	–	<50	–				4200	
F1 C_6–C_{10} [1] (l)		<10	<10	<10	<10	–	–	–	<10	–	<10	–		50 (d)	180 (i)		800 (k)
F2 C_{10}–C_{16} [1] (m)		<50	<50	<50	<50	–	–	–	<50	–	<50	–		280 (d)	120 (i)		1000 (k)
F3 $>C_{16}$–C_{34}		200	<100	<100	<100	–	–	–	<100	–	140	–			1300 (i)	5900	3500 (k)
F4 $>C_{34}$–C_{40}		<100	<100	<100	<100	–	–	–	<100	–	<100	–			5600 (i)	8100	10000 (k)
Total C_{10}–C_{40}		200	<50	<50	<50	–	–	–	<50	–	140	–					
Polycyclic Aromatic Hydrocarbons (PAHs)																	
Phenanthrene		–	–	–	0.6	–	–	–	<0.5	–	0.7	–					
Fluoranthene		–	–	–	1.5	–	–	–	<0.5	–	<0.5	–					
Pyrene		–	–	–	1.4	–	–	–	<0.5	–	<0.5	–					
Benz(a)anthracene		–	–	–	0.6	–	–	–	<0.5	–	<0.5	–					
Chrysene		–	–	–	0.6	–	–	–	<0.5	–	<0.5	–					
Benzo(b+j)fluoranthene		–	–	–	0.8	–	–	–	<0.5	–	<0.5	–					
Benzo(a)pyrene		–	–	–	0.7	–	–	–	<0.5	–	<0.5	–			0.7 (i)		
Carcinogenic PAHs [2]		–	–	–	0.8	–	–	–	<0.5	–	<0.5	–		4			
Total PAHs above detection limits		–	–	–	6.2	–	–	–	ND	–	0.7	–	0.95-5 (b)	400			
Organochlorine Pesticides (OCPs)																	
Hexachlorobenzene (HCB)		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		15			
Heptachlor		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		10			
Chlordane		<0.05	<0.05	<0.05	<0.05	<0.05	0.08	<0.05	<0.05	<0.05	<0.05	<0.05		90			
Endrin		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		20			
Endosulfan (sum)		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		400			
Methoxychlor		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2		500			
DDT+DDE+DDE		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		600	180 (f),(j)		
Aldrin + Dieldrin		<0.05	<0.05	0.41	<0.05	<0.05	0.64	<0.05	<0.05	<0.05	<0.05	<0.05		10			
Total OCPs above detection limits		ND	ND	0.41	ND	ND	0.72	ND	ND	ND	ND	ND					
Organophosphorus Pesticides (OPPs)																	
Chlorpyrifos		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		340			
Total OCPs above detection limits		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND					
Phenolic Compounds																	
Phenols		–	–	–	ND	–	–	–	–	–	ND	–	0.03-0.5 (b)	45000			
Pentachlorophenol		–	–	–	<2	–	–	–	–	–	<2	–		130			
Polychlorinate Biphenyls (PCB)																	
Total PCBs above detection limits		–	–	–	<0.1	–	–	–	–	–	0.1	–	0.02-0.1 (b)	1			
Asbestos																	
Bonded ACM(as 15% Asbestos in ACM >7mm) (w/w) (%)		<0.01	<0.01	<0.01	–	–	<0.01	–	<0.01	–	<0.01	–		0.04 (e)			
Friable asbestos (fibrous and fines)(w/w) (%)		<0.001	<0.001	<0.001	–	–	<0.001	–	<0.001	–	<0.001	–		0.001 (e)			
Free Fibres		No	No	No	–	–	No	–	No	–	No	–		No detectable (e)			
Asbestos Type		ND	ND	ND	–	–	ND	–	ND	–	ND	–					

Notes : Results in mg/kg unless specified otherwise.
ND = No individual species detected above laboratory detection limits.
[1] Calculated in accordance with Table 1A(3) of NEPM 2013
[2] Combined carcinogenic PAHs with relative potency to benzo(a)pyrene
Results shaded red exceed the NEPM 2013 HIL Residential B /HSL A & B low - high density residential criteria
Results shaded blue exceed the NEPM 2013 EIL/ESL criteria for an urban residential and public open space setting
Results shaded green exceed the CRC CARE 2011 HSL-B high density residential criteria for direct contact with soil
Results shaded yellow exceed the NEPM 2013 management limits for a residential, parkland and public open space land setting

(a) Criterion for inorganic mercury.
(b) ANZECC 1992 background ranges used where no NEPM criteria available.
(c) Criterion for hexavalent chromium.
(d) NEPM 2013 HSL criterion for vapour intrusion, 0-1m depth in clay soils.
(e) 2009 WA DOH/NEPM 2013 HSLs for asbestos in soil.
(f) 2013 NEPM generic EIL.
(g) NEPM 1999 EIL used where no NEPM 2013 criteria are available.
(h) Criterion for chromium III.
(i) NEPM 2013 ESL criterion for fine texture grade soils.
(j) Criterion for DDT.
(k) Criterion for fine texture grade soils.
(l) F1 TPH = TPH (C6-C10) minus BTEX fraction.
(m) F2 TPH = TPH (C10-C16) minus naphthalene fraction.

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Table B Analytical Results For Waste Classification

Analytes	Borehole No./ Site Location:	BH1	BH2	BH3	BH3	BH3	BH4	BH4	BH5	BH6	BH6	BH6	NSW EPA 2014 Waste Classification Guideline Contaminant Threshold (CT1) Criteria for General Solid Waste	NSW EPA 2014 Waste Classification Guideline Contaminant Threshold (CT2) Criteria for Restricted Solid Waste	NSW EPA 2014 Waste Classification Guideline Combined SCC1 and TCLP1 Values for General Solid Waste	NSW EPA 2014 Waste Classification Guideline Combined SCC2 and TCLP2 Values for Restricted Solid Waste	NSW Waste Classification Guideline Criteria for Special Waste
	Sample No.:	S1	S2	S3	S6	S7	S8	S9	S10	S11	S12	S13					
	Date Sampled:	10-Mar-17	10-Mar-17	10-Mar-17	10-Mar-17	10-Mar-17	10-Mar-17	10-Mar-17	10-Mar-17	10-Mar-17	10-Mar-17	10-Mar-17					
Metals																	
Arsenic		12	6	12	12	9	12	6	--	6	<5	<5	100	400			
Cadmium		2	2	<1	2	3	2	<1	--	2	2	<1	20	80			
Chromium		22	32	25	24	28	24	16	--	44	25	10	100 (a)	400 (a)			
Copper		35	<5	47	29	<5	257	14	--	25	258	5					
Lead		292	22	703	365	24	708	57	--	24	83	24	100	400	1500	6000	
Leachable Lead (mg/L)		0.2		<0.1	0.1		<0.1								5	20	
Mercury		0.1	<0.1	0.7	1.3	<0.1	0.8	0.1	--	<0.1	0.1	<0.1	4	16			
Nickel		4	<2	8	5	<2	11	3	--	31	30	<2	40	160			
Zinc		231	11	735	398	<5	832	48	--	118	229	33					
Monocyclic Aromatic Hydrocarbons (MAHs)																	
Benzene		<0.2	<0.2	<0.2	<0.2	--	--	--	<0.2	--	<0.2	--	10	40			
Toluene		<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	<0.5	--	288	1152			
Ethylbenzene		<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	<0.5	--	600	2400			
Xylenes		<0.5	<0.5	<0.5	<0.5	--	--	--	<0.5	--	<0.5	--	1000	4000			
Napthalene		<1	<1	<1	<1	--	--	--	<1	--	<1	--					
Total MAHs above detection limits		ND	ND	<0.2	ND	--	--	--	ND	--	ND	--					
Halogenated Aliphatic Compounds (HALCs)																	
Trichloroethene		--	<0.5	--	<0.5	--	--	--	--	--	<0.5	--					
1,1-Dichloroethane		--	<0.5	--	<0.5	--	--	--	--	--	<0.5	--					
Total HALCs above detection limits		--	ND	--	ND	--	--	--	--	--	ND	--					
Halogenated Aromatic Compounds (HARCs)																	
Total HARCs above detection limits		--	ND	--	ND	--	--	--	--	--	ND	--					
Trihalomethanes (THMs)																	
Total THMs above detection limits		--	ND	--	ND	--	--	--	--	--	ND	--					
Oxygenated Compounds (OCs)																	
Total OCs above detection limits		--	ND	--	ND	--	--	--	--	--	ND	--					
Sulfonated Compounds																	
Total SC above detection limits		--	ND	--	ND	--	--	--	--	--	ND	--					
Fumigants																	
Total fumigants above detection limits		--	ND	--	ND	--	--	--	--	--	ND	--					
Total Petroleum Hydrocarbons (TPHs)																	
Total C_6-C_9		<10	<10	<10	<10	--	--	--	<10	--	<10	--	650	2600			
Total C_{10}-C_{14}		<10	<10	<10	<10	--	--	--	<10	--	<10	--					
Total C_{15}-C_{19}		<50	<50	<50	<50	--	--	--	<50	--	<50	--					
F1 C_6-C_{10} [1] (l)		<10	<10	<10	<10	--	--	--	<10	--	<10	--					
F2 C_{10}-C_{16} (m)		<50	<50	<50	<50	--	--	--	<50	--	<50	--					
F3 >C_{16}-C_{34}		200	<100	<100	<100	--	--	--	<100	--	140	--					
F4 >C_{34}-C_{40}		<100	<100	<100	<100	--	--	--	<100	--	<100	--					
Total C_{10}-C_{36}		230	<50	<50	<50	--	--	--	<50	--	110	--	10000	40000			
Total C_{10}-C_{40}		200	<50	<50	<50	--	--	--	<50	--	140	--					
Polycyclic Aromatic Hydrocarbons (PAHs)																	
Benzo(a)pyrene		--	--	--	0.7	--	--	--	<0.5	--	<0.5	--	0.8	3.2			
Carcinogenic PAHs [2]		--	--	--	0.8	--	--	--	<0.5	--	<0.5	--					
Total PAHs above detection limits		--	--	--	6.2	--	--	--	ND	--	0.7	--	200	800			
Organochlorine Pesticides (OCPs)																	
Hexachlorobenzene (HCB)		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05					
Heptachlor		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05					
Chlordane		<0.05	<0.05	<0.05	<0.05	<0.05	0.08	<0.05	<0.05	<0.05	<0.05	<0.05					
Endrin		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05					
Endosulfan (sum)		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	60	240			
Methoxychlor		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2					
DDT+DDE+DDE		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05					
Aldrin + Dieldrin		<0.05	<0.05	0.41	<0.05	<0.05	0.64	<0.05	<0.05	<0.05	<0.05	<0.05					
Total OCPs above detection limits		ND	ND	0.41	ND	ND	0.72	ND	ND	ND	ND	ND					
Organophosphorus Pesticides (OPPs)																	
Chlorpyrifos		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	4	16			
Total OCPs above detection limits		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND					
Phenolic Compounds																	
Total Phenols above detection limits		--	--	--	ND	--	--	--	--	--	ND	--	288 (b)	1152 (b)			
Pentachlorophenol		--	--	--	<2	--	--	--	--	--	<2	--					
Polychlorinate Biphenyls (PCB)																	
Total PCBs above detection limits		--	--	--	<0.1	--	--	--	--	--	0.1	--	<50	<50			
Asbestos																	
Bonded ACM (w/w) (%)		<0.01	<0.01	<0.01	--	--	<0.01	--	<0.01	--	<0.01	--					Presence of any asbestos
Friable asbestos (fibrous and fines)(w/w) (%)		<0.001	<0.001	<0.001	--	--	<0.001	--	<0.001	--	<0.001	--					Presence of any asbestos
Free Fibres		No	No	No	--	--	No	--	No	--	No	--					Presence of any asbestos
Asbestos Type		ND	ND	ND	--	--	ND	--	ND	--	ND	--					Presence of any asbestos

Notes : Results expressed as mg/kg unless otherwise indicated

SCC = Specific Contaminat Concentration

TCLP = Toxicity Characteristics Leaching Procedure

ND = No individual species detected above laboratory detection limits

1 Calculated in accordance with Table 1A(3) of NEPM 2013

Results shaded yellow exceed the NSW EPA 2014 CT1 thresholds for General Solid Waste

Results shaded purple exceed the NSW EPA 2014 CT2 thresholds for Restricted Solid Waste

Results shaded red exceed the combined SCC1 and/or TCLP1 values for General Solid Waste

Results shaded blue exceed the combined SCC2 and/or TCLP2 values for Restricted Solid Waste

Results shaded green satisfy the EPA Waste Guidelines criteria for Special Waste (asbestos)

(a) Criterion for chromium VI

(b) Criterion for non-halogenated phenols

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Table C: Results of Quality Control - Intra and Inter-Laboratory Duplicate Samples

		Sample Numbers					
	Sample No.:	**S3**	**S4***	**RPD (%)**	**S3**	**S5****	**RPD (%)**
Analytes	**Date Sampled:**	**10/03/2017**	**10/03/2017**	**10/03/2017**	**10/03/2017**	**10/03/2017**	**10/03/2017**
Metals							
Arsenic		12	10	18	12	13	8
Cadmium		<1	2	<50	<1	<1	<50
Chromium (Total)		25	23	8	25	24	4
Copper		47	38	21	47	41	14
Lead		407	405	0.5	407	630	43
Mercury		0.7	0.9	25	0.7	1.1	44
Nickel		8	5	46	8	6	29
Zinc		735	314	**80**	735	404	**58**
Monocyclic Aromatic Hydrocarbons (MAHs)							
Benzene		<0.2	<0.2	<70	<0.2	<0.2	<70
Toluene		<0.5	<0.5	<70	<0.5	<0.5	<70
Ethylbenzene		<0.5	<0.5	<70	<0.5	<0.5	<70
Xylenes		<0.5	<0.5	<70	<0.5	<0.5	<70
Napthalene		<1	<1	<70	<1	<1	<70
Total Petroleum Hydrocarbons (TPHs)							
Total C_6-C_{10}		<10	<10	<70	<10	<10	<70
Total C_{10}-C_{16}		<50	<50	<70	<50	<50	<70
F1 C_6-C_{10}		<10	<10	<70	<10	<10	<70
F2 C_{10}-C_{16}		<50	<50	<70	<50	<50	<70
F3 >C_{16}-C_{34}		<100	<100	<70	<100	<100	<70
F4 >C_{34}-C_{40}		<100	<100	<70	<100	<100	<70
Total C_{10}-C_{40}		<50	<50	<70	<50	<50	<70

Notes : Results expressed as mg/kg dry weight unless otherwise indicated
*Denotes intra-laboratory field duplicate sample analysed by ALS Sydney
**Denotes inter-laboratory field duplicate sample analysed by ALS Brisbane
RPDs shaded grey exceed the acceptance criteria

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Table D Results of Quality Control - Rinsate and Trip Blank Samples

		Sample Numbers	
	Sample No.:	**RB01**	**TB01**
	Medium:	**Water**	**Soil**
Analyte	**Date Sampled:**	**10-Mar-17**	**10-Mar-17**
Metals			
Arsenic		<1	
Cadmium		<0.1	
Chromium		<1	
Copper		<1	
Lead		<1	
Mercury		<0.1	
Nickel		<1	
Zinc		<5	
Monocyclic Aromatic Hydrocarbons (MAHs)			
Benzene		<1	<0.2[1]
Ethylbenzene		<2	<0.5[1]
Toluene		<2	<0.5[1]
Xylenes		<2	<0.5[1]
Napthalene		<5	<1[1]
Total Petroleum Hydrocarbons (TPHs)			
Total C_6-C_{10}		<20	<10[1]
Total C_{10}-C_{16}		<100	
F1 C_6-C_{10}[1] (l)		<20	<10[1]
F2 C_{10}-C_{16}[1] (m)		<100	
F3 >C_{16}-C_{34}		<100	
F4 >C_{34}-C_{40}		<100	

Note: Results expressed as ug/L unless otherwise indicated

[1] Denotes results in mg/kg

RPDs that have been shaded exceed the acceptance criteria

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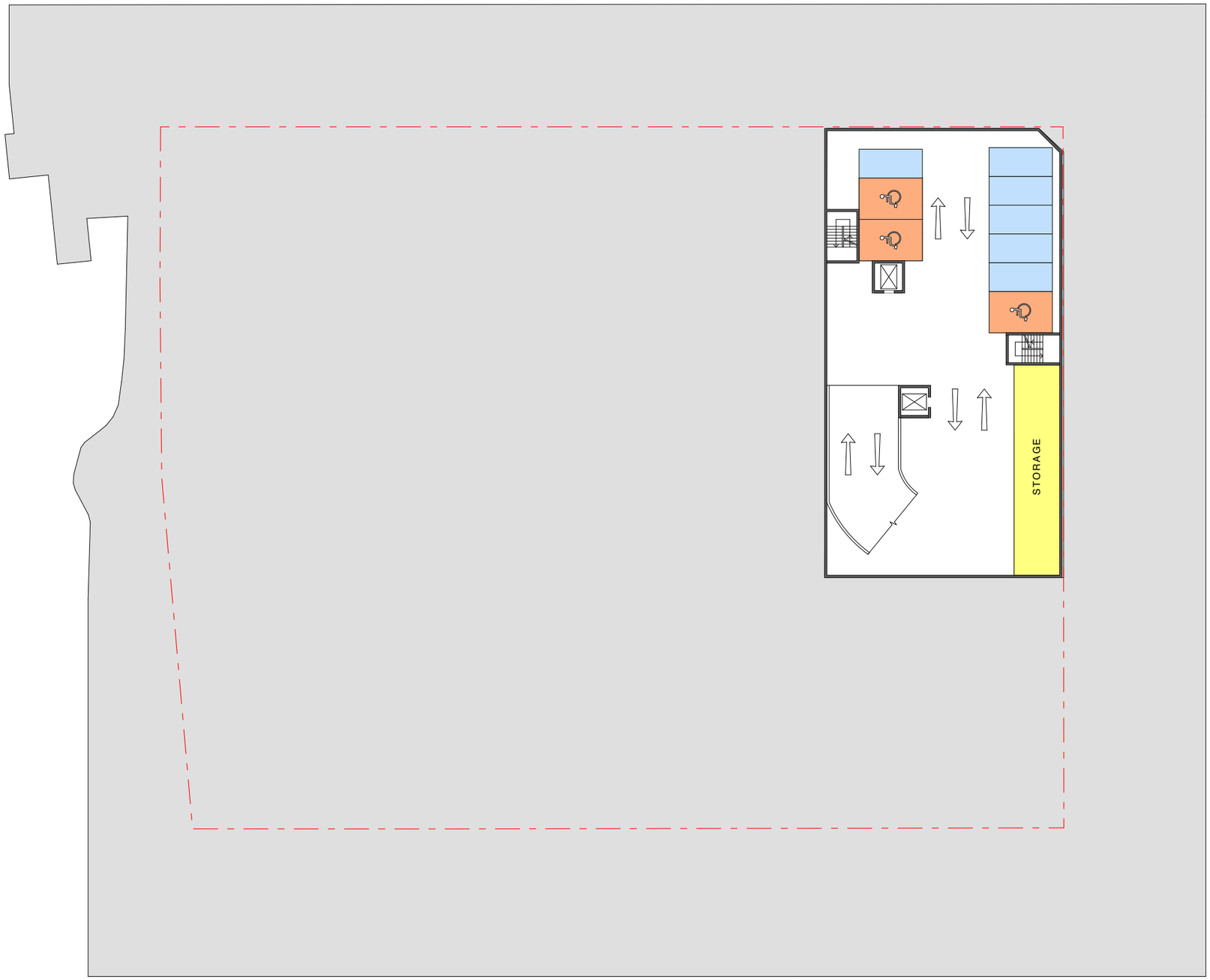
APPENDIX A – PROPOSED DEVELOPMENT PLANS

BASEMENT 3 FLOOR PLAN



0 10m

Scale 1:400 @ A3
INDICATIVE ONLY

BASEMENT 2 FLOOR PLAN

0 10m

Scale 1:400 @ A3
INDICATIVE ONLY

BKA architecture

BASEMENT 1 FLOOR PLAN

0 10m

Scale 1:400 @ A3
INDICATIVE ONLY

GROUND FLOOR PLAN

Scale 1:400 @ A3
INDICATIVE ONLY

BKA architecture

LEVEL 1 FLOOR PLAN

0 10m

Scale 1:400 @ A3
INDICATIVE ONLY

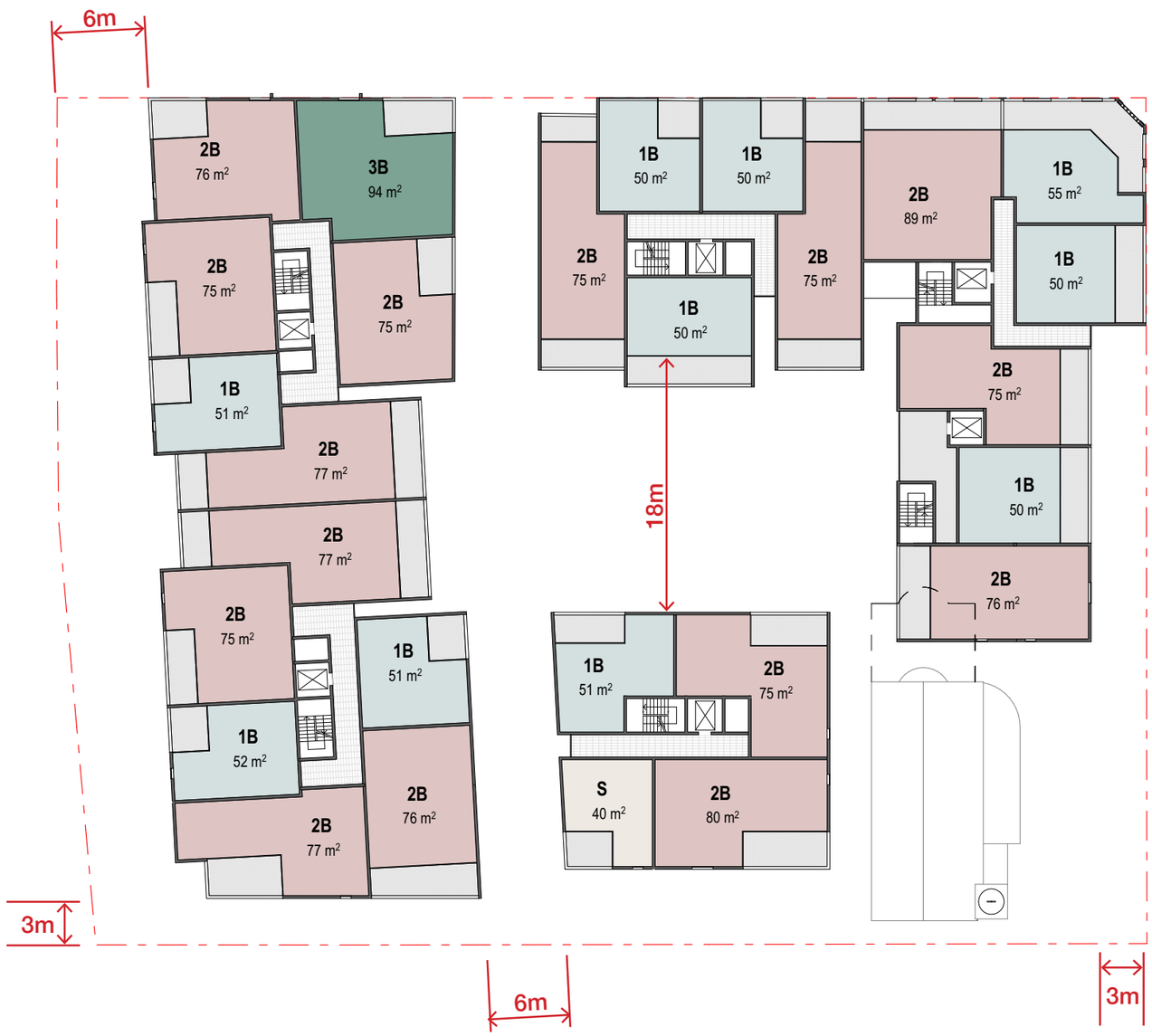
LEVEL 2 FLOOR PLAN

0 10m

Scale 1:400 @ A3
INDICATIVE ONLY

BKA architecture

LEVEL 3 FLOOR PLAN



0 10m

Scale 1:400 @ A3
INDICATIVE ONLY

LEVEL 4 FLOOR PLAN

0 10m

Scale 1:400 @ A3
INDICATIVE ONLY

BKA architecture

LEVEL 5/ ROOF FLOOR PLAN

0 10m

Scale 1:400 @ A3
INDICATIVE ONLY

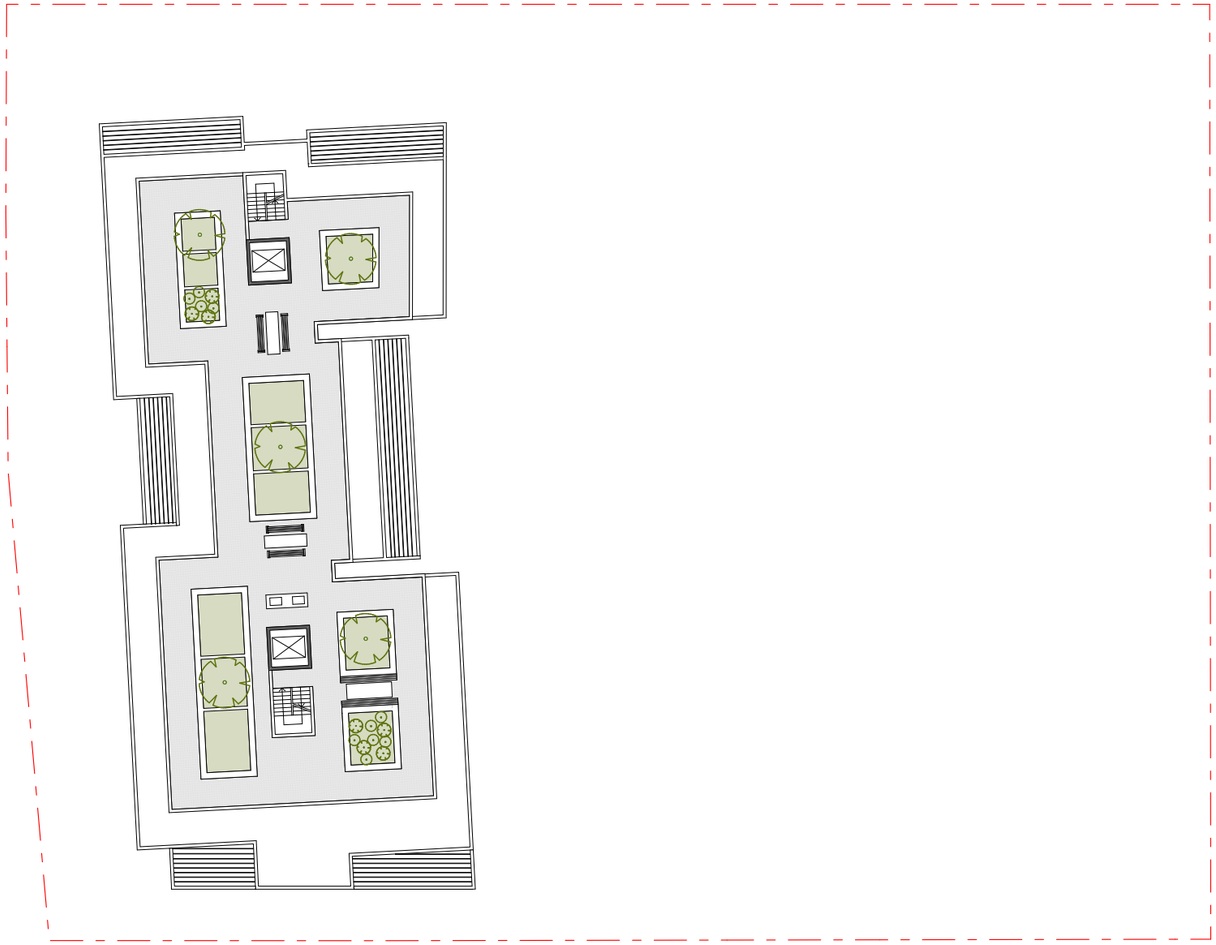
LEVEL 6/ LEVEL 7 FLOOR PLAN

0 10m

Scale 1:400 @ A3
INDICATIVE ONLY

BKA architecture

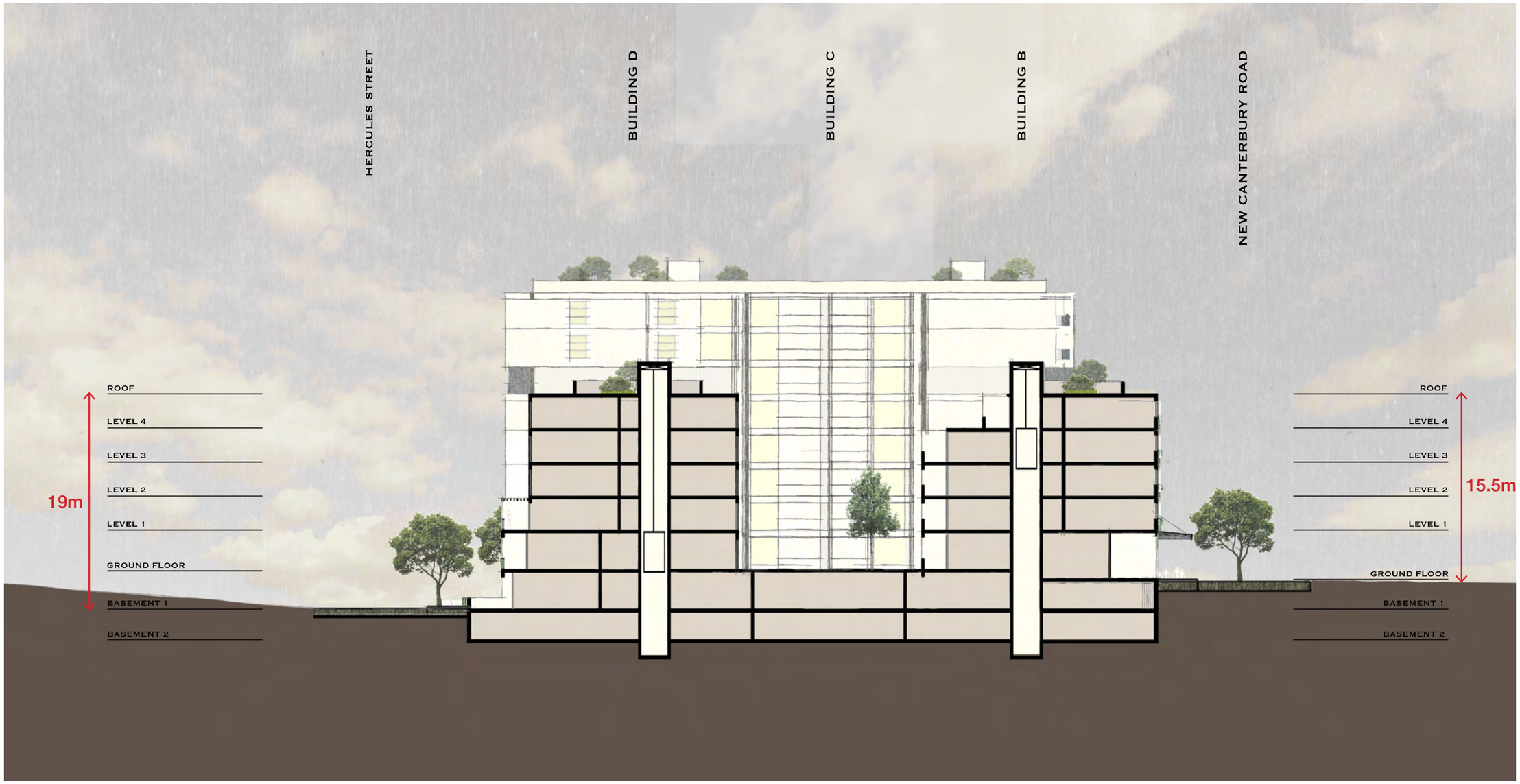
ROOF FLOOR PLAN



0 10m

Scale 1:400 @ A3
INDICATIVE ONLY

SOUTH NORTH SECTION



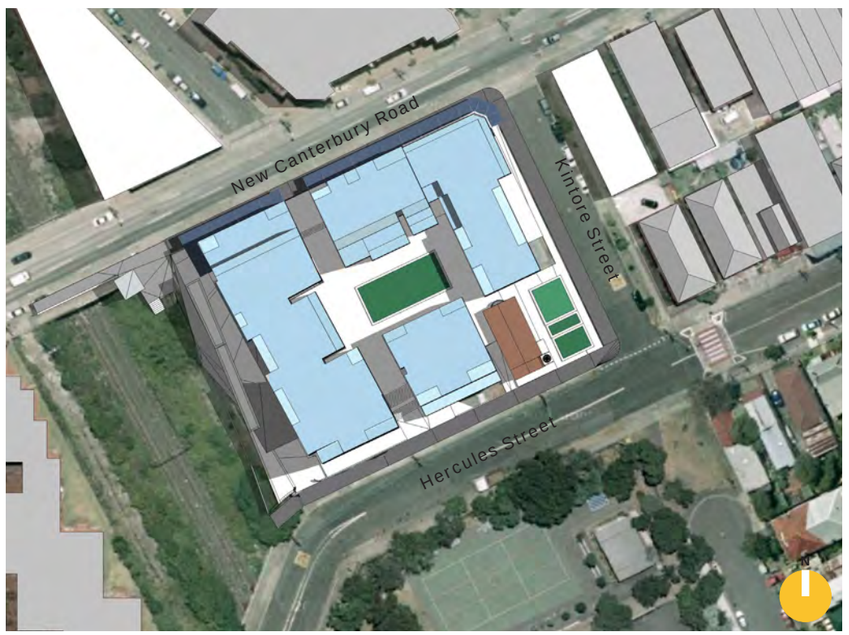
SOUTH - NORTH SECTION - INDICATIVE ONLY

0 10m

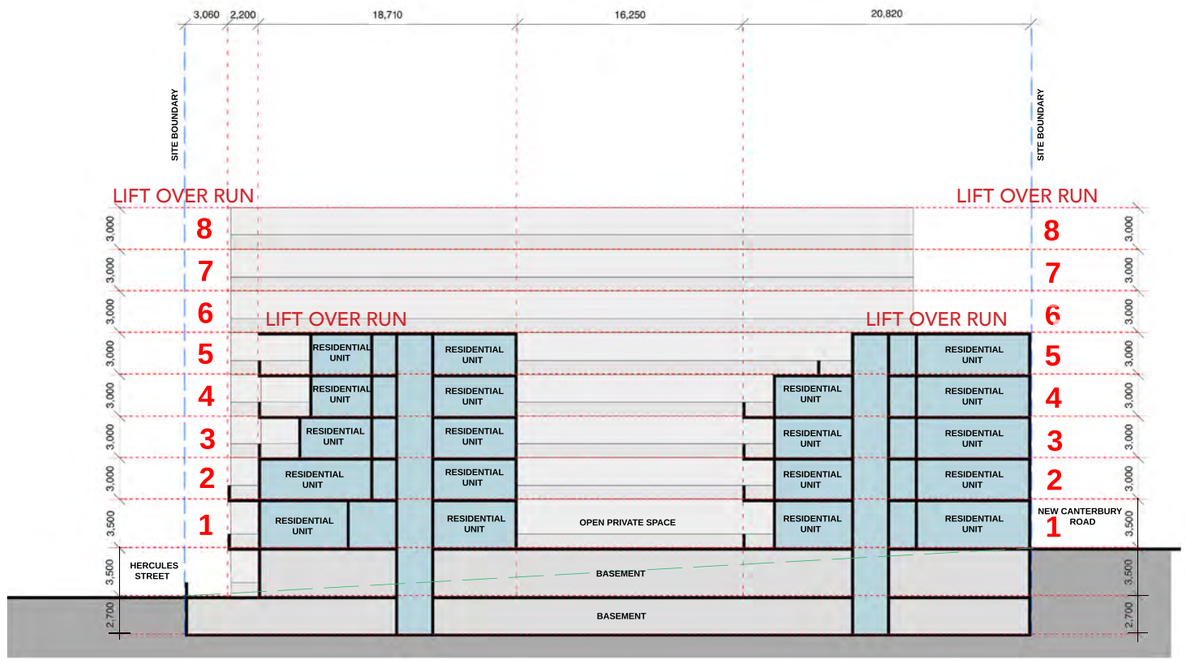
STUDY 8
(PREFERRED CONCEPT)

- 27/30m HOB Adjacent Light Rail Stop (inc lift over run)
- 18m HOB New Canterbury Road (inc lift over run)
- 21/18m HOB Hercules Street (inc lift over run)
- Through site link
- Heritage facades to New Canterbury Road
- Retain Church - curtlage + park

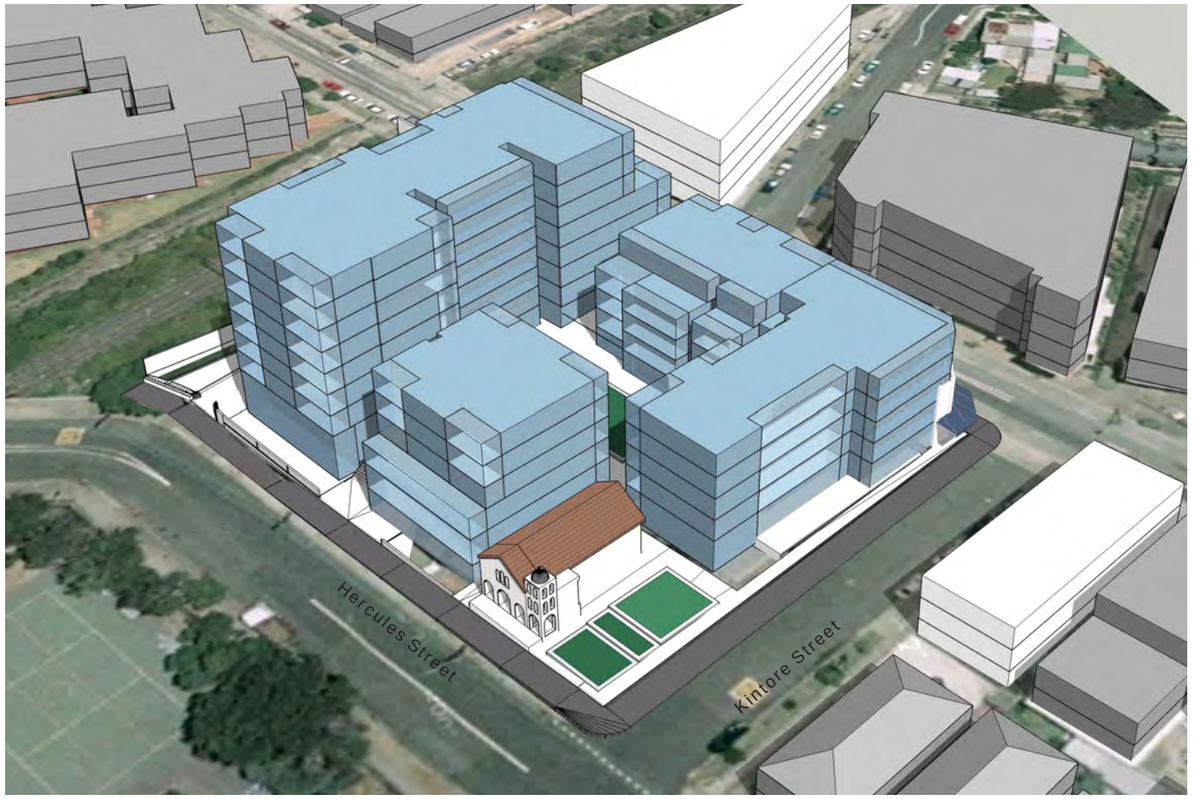
Proposed development
Existing Building
Future Development based on LEP & DCP



Plan View



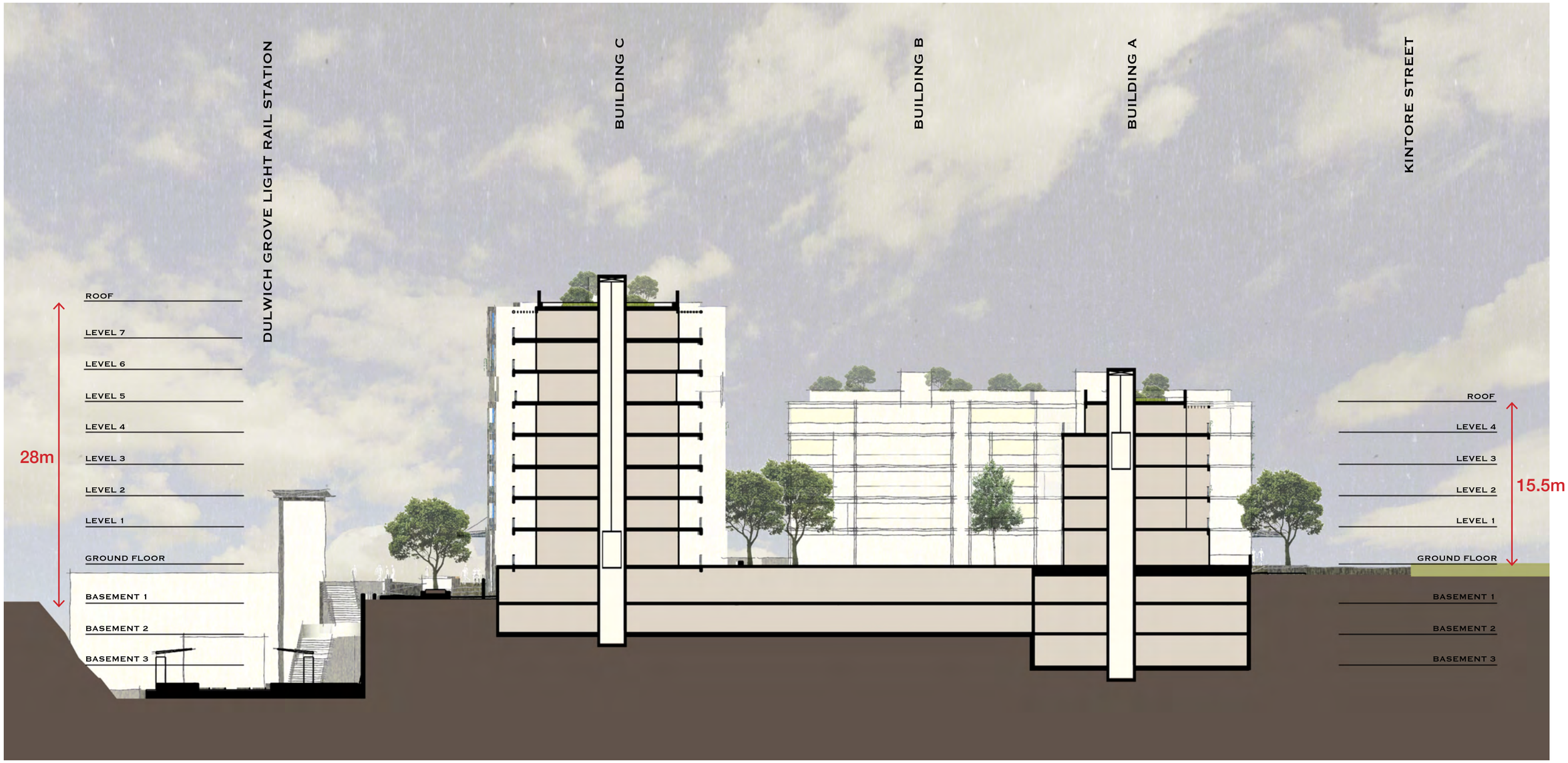
North - South Cross Section looking towards the west



Perspective 1

Perspective 2

WEST EAST SECTION



WEST - EAST SECTION - DULWICH GROVE LIGHT RAIL STATION - INDICATIVE ONLY

0 10m

APPENDIX B – AERIAL PHOTOGRAPHS AND SATELLITE IMAGERY

2016 Satellite Image Showing the Site and Surrounds

2014 Aerial Photograph Showing the Site and Surrounds

2009 Aerial Photograph Showing the Site and Surrounds

2003 Satellite Image Showing the Site and Surrounds

1994 Aerial Photograph Showing the Site and Surrounds

1986 Aerial Photograph Showing the Site and Surrounds

1970 Aerial Photograph Showing the Site and Surrounds

1961 Aerial Photograph Showing the Site and Surrounds

1956 Aerial Photograph Showing the Site and Surrounds

1943 Aerial Photograph Showing the Site and its Surrounds

1930 Aerial Photograph Showing the Site and Surrounds

APPENDIX C – SECTION 149 (2) PLANNING CERTIFICATES

INNER WEST COUNCIL

PLANNING CERTIFICATE UNDER SECTION 149 OF THE ENVIRONMENTAL PLANNING & ASSESSMENT ACT, 1979.

APPLICANT
S GLOBAL
Po Box 447
Southbank VIC 3205
epropertysupport@saiglobal.com

PROPERTY
26 Hercules Street
DULWICH HILL NSW 2203
Lot 14 Sec 4 DP 932

PROPERTY NO.
11760

REFERENCE

In accordance with the requirements of section 149 of the Environmental Planning and Assessment Act 1979, the following prescribed matters relate to the land at the date of this certificate.

ITEM 1

Names of relevant planning instruments and DCPs

(1)	The name of each environmental planning instrument that applies to the carrying out of development on the land.

1. The following environmental planning instruments apply to the land:

- Marrickville Local Environmental Plan 2011
- deemed S.E.P.P. (Sydney Harbour Catchment) 2005
- S.E.P.P. No. 19 Bushland in Urban Areas
- S.E.P.P. No. 21 Caravan Parks
- S.E.P.P. No. 30 Intensive Agriculture
- S.E.P.P. No. 32 Urban Consolidation (Redevelopment of Urban Land)
- S.E.P.P. No. 33 Hazardous and Offensive Development
- S.E.P.P. No. 50 Canal Estate Development
- S.E.P.P. No. 55 Remediation of Land
- S.E.P.P. No. 62 Sustainable Aquaculture
- S.E.P.P. No. 64 Advertising and Signage
- S.E.P.P. No. 65 Design Quality of Residential Flat Development
- S.E.P.P. (Housing for Seniors or People with a Disability) 2004
- S.E.P.P. (Building Sustainability Index: BASIX) 2004
- S.E.P.P. (Major Development) 2005
- S.E.P.P. (Mining, Petroleum Production and Extractive Industries) 2007
- S.E.P.P. (Miscellaneous Consent Provisions) 2007
- S.E.P.P. (Infrastructure) 2007
- S.E.P.P. (Exempt and Complying Development Codes) 2008

- S.E.P.P. (Affordable Rental Housing) 2009

Any enquiries regarding these State Planning Policies should be directed to the Department of Planning on: ***1300 305 695 or 02 9228 6333.*** *Information can also be obtained from the Department's website at http://www.planning.nsw.gov.au*

(1)	The name of each proposed environmental planning instrument that will apply to the carrying out of development on the land and that is or has been the subject of community consultation or on public exhibition under the Act (unless the Director-General has notified the council that the making of the proposed instrument has been deferred indefinitely or has not been approved).

2. The following proposed environmental planning instruments apply to the land:

- None

(2)	The name of each development control plan that applies to the carrying out of development on the land.

3. The following development controls plan (D.C.P) apply to the land:

- Marrickville Development Control Plan 2011

ITEM 2

Zoning and land use under relevant LEPs

For each environmental planning instrument or proposed instrument referred to in clause 1 (other than a SEPP or proposed SEPP) that includes the land in any zone (however described):

(a) the identity of the zone, whether by reference to a name (such as "Residential Zone" or Heritage Area") or by reference to a number (such as "Zone No 2 (a)"),

(b) the purposes for which the instrument provides that development may be carried out within the zone without the need for development consent,

(c) the purposes for which the instrument provides that development may not be carried out within the zone except with development consent,

(d) the purposes for which the instrument provides that development is prohibited within the zone,

(e) whether any development standards applying to the land fix minimum land dimensions for the erection of a dwelling-house on the land and, if so, the minimum land dimensions so fixed,

(f) whether the land includes or comprises critical habitat,

(g) whether the land is in a conservation area (however described),

(h) whether an item of environmental heritage (however described) is situated on the land.

Item 2 (a), (b), (c) & (d) – Zoning and Land use table

IN2 - Light Industrial

1 Objectives of zone

•To provide a wide range of light industrial, warehouse and related land uses.

•To encourage employment opportunities and to support the viability of centres.

•To minimise any adverse effect of industry on other land uses.

•To enable other land uses that provide facilities or services to meet the day to day needs of workers in the area.

•To support and protect industrial land for industrial uses.

•To provide business and office premises for the purposes of certain art, technology, production and design sectors.

•To enable a purpose-built dwelling house to be used in certain circumstances as a dwelling house.

2 Permitted without consent

Home occupations

3 Permitted with consent

Depots; Dwelling houses; Garden centres; Hardware and building supplies; Hospitals; Industrial training facilities; Intensive plant agriculture; Kiosks; Landscaping material supplies; Light industries; Markets; Neighbourhood shops; Plant nurseries; Roads; Sewage reticulation systems; Take away food and drink premises; Vehicle sales or hire premises; Warehouse or distribution centres; Any other development not specified in item 2 or 4

4 Prohibited

Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Boat launching ramps; Boat sheds; Camping grounds; Caravan parks; Cemeteries; Charter and tourism boating facilities; Correctional centres; Crematoria; Eco-tourist facilities; Environmental facilities; Exhibition homes; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Function centres; Health services facilities; Heavy industrial storage establishments; Helipads; Highway service centres; Home occupations (sex services); Industries; Information and education facilities; Jetties; Marinas; Mooring pens; Moorings; Open cut mining; Passenger transport facilities; Port facilities; Public administration buildings; Recreation facilities (major); Recreation facilities (outdoor); Research stations; Residential accommodation; Restricted premises; Retail premises; Rural industries; Sewerage systems; Tourist and visitor accommodation; Vehicle body repair workshops; Waste or resource management facilities; Water recreation structures; Water supply systems; Wholesale supplies

Item 2 (e) – Minimum land dimensions

There are NO minimum land dimensions for the erection of a dwelling house on the land. All applications for the erection of a dwelling house will be assessed in accordance with the Environmental Planning and Assessment Act, 1979.

Item 2 (f) – Critical habitat

The land DOES NOT include or comprise critical habitat.

Item 2 (g) – Conservation Area

The land IS NOT within a heritage conservation area referred to in Schedule 5 of Marrickville Local Environmental Plan 2011

Item 2 (h) – Heritage Item

An item of environmental heritage IS NOT situated on the land under Marrickville Local Environmental Plan 2011

ITEM 2A

Zoning and land use under State Environmental Planning Policy (Sydney Region Growth Centres) 2006

To the extent that the land is within any zone (however described) under:

(a) Part 3 of the *State Environmental Planning Policy (Sydney Region Growth Centres) 2006* (**the 2006 SEPP**), or

(b) a Precinct Plan (within the meaning of the 2006 SEPP), or

(c) a proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act,

the particulars referred to in clause 2 (a)–(h) in relation to that land (with a reference to "the instrument" in any of those paragraphs being read as a reference to Part 3 of the 2006 SEPP, or the Precinct Plan or proposed Precinct Plan, as the case requires).

The land IS NOT land to which State Environmental Planning Policy (Sydney Region Growth Centres) 2006 applies.

ITEM 3

Complying development

(1) The extent to which the land is land on which complying development may be carried out under each of the codes for complying development because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.*

(2) The extent to which complying development may not be carried out on that land because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of that Policy and the reasons why it may not be carried out under those clauses.

(3) If the council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land, a statement that a restriction applies to the land, but it may not apply to all of the land, and that council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land.

Please note: The following land-based affectations may affect only part of the land parcel: ANEF25+, Acid Sulfate Soils, Heritage Item (Local and State), Heritage Conservation Area, Heritage Interim Order, Foreshore Building Line and Land Reserved for Acquisition. Please check the planning maps to determine the extent of the affectation(s) to establish if Complying Development is allowed on part of the land parcel.

General Housing Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Commercial and Industrial (New Buildings and Additions) Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Housing Alterations Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

General Development Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Commercial and Industrial Alterations Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Subdivisions Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Demolition Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Fire Safety Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

ITEM 4

Coastal protection

Whether or not the land is affected by the operation of section 38 or 39 of the *Coastal Protection Act 1979*, but only to the extent that the council has been so notified by the Department of Services, Technology and Administration.

No.

ITEM 4A

Certain information relating to beaches and coasts

(1) In relation to a coastal council – whether an order has been made under Part 4D of the *Coastal Protection Act 1979* in relation to temporary coastal protection works (within the meaning of that Act) on the land (or on public land adjacent to that land), except where the council is satisfied that such an order has been fully complied with.

NO order has been made under Part 4D of the *Coastal Protection Act 1979.*

(2) In relation to a coastal council:

(a) whether the council has been notified under section 55X of the *Coastal Protection Act 1979* that temporary coastal protection works (within the meaning of that Act) have been placed on the land (or on public land adjacent to that land), and

Council HAS NOT been notified under Section 55X of the *Coastal Protection Act 1979.*

(b) if works have been so placed – whether the council is satisfied that the works have been removed and the land restored in accordance with that Act.

Not Applicable

ITEM 4B

Annual charges under Local Government Act 1993 for coastal protection services that relate to the existing coastal protection works

> In relation to a coastal council – whether the owner (or any previous owner) of the land has consented in writing to the land being subject to annual charges under section 496B of the *Local Government Act 1993* for coastal protection services that relate to existing coastal protection works (within the meaning of section 553B of that Act).

The land IS NOT subject to any annual charges under Section 496B of the *Local Government Act 1993.*

ITEM 5

Mine subsidence

> Whether or not the land is proclaimed to be a mine subsidence district within the meaning of section 15 of the *Mine Subsidence Compensation Act 1961.*

No.

ITEM 6

Road widening and road realignment

> Whether or not the land is affected by any road widening or road realignment under:
> (a) Division 2 of Part 3 of the Roads Act 1993, or
> (b) any environmental planning instrument, or
> (c) any resolution of the council.

The land IS NOT affected by a road widening or road realignment under:
(i) Part 3 Division 2 of the Roads Act 1993
(ii) any environmental planning instrument; or
(iii) any resolution of the Council

ITEM 7

Council and other public authority policies on hazard risk restrictions

> Whether or not the land is affected by a policy:
> (a) adopted by the council, or
> (b) adopted by any other public authority and notified to the council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the council,
>
> that restricts the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulphate soils or any other risk (other than flooding).

- Council HAS adopted by resolution and in accordance with S.72 of the Environmental Planning & Assessment Act, 1979 a development control plan incorporating Council's policy on contaminated land. The Plan has been prepared substantially in accordance with State Environmental Planning Policy No. 55, and the Contaminated Land Planning Guidelines. This policy may affect development of land:

  (a) which is affected by contamination;
  (b) which has been used for certain purposes;
  (c) in respect of which there is not sufficient information about contamination;
  (d) which is proposed to be used for certain purposes;

(e) in other circumstances contained in the development control plan and policy;

and in some cases may restrict the development of land.

- Council HAS NOT by resolution (aside from the matters raised in the above item(s)) adopted a policy to restrict the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulfate soils or any other risk (other than flooding).

- Council HAS received no notification of the type described in item 7(b) from a public authority of a policy adopted by that authority that restricts the development of the land because of land slip, bushfire, tidal inundation, subsidence, acid sulfate soils or any other risk (other than flooding).

ITEM 7A

Flood related development controls information

(1)	Whether or not development on that land or part of the land for the purposes of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings (not including development for the purposes of group homes or seniors housing) is subject to flood related development controls.

Yes. Land is identified as flood-affected according to the draft Hawthorne Canal Flood Study, prepared for Council in 2015.

(2)	Whether or not development on that land or part of the land for any other purpose is subject to flood related development controls.

Yes. Land is identified as flood-affected according to the draft Hawthorne Canal Flood Study, prepared for Council in 2015.

(3)	Words and expressions in this clause have the same meaning as in the instrument set out in the Schedule to the *Standard Instrument (Local Environmental Plan) Order 2006.*

ITEM 8

Land reserved for acquisition

Whether or not any environmental planning instrument or proposed environmental planning instrument referred to in clause 1 makes provision in relation to the acquisition of the land by a public authority, as referred to in section 27 of the Act.

The land IS NOT reserved, in part or whole, for acquisition by a public authority, as referred to in section 27 of the Act, under:

(i) any environmental planning instrument
(ii) deemed environmental planning instrument; or
(iii) draft environmental planning instrument

ITEM 9

Contributions plans

The name of each contributions plan applying to the land.

- Marrickville Section 94/94A Contributions Plan 2004.
- Marrickville Section 94/94A Contributions Plan 2014.

ITEM 9A

Biodiversity certified land

If the land is biodiversity certified land (within the meaning of *Part 7AA of the Threatened Species Conservation Act 1995*) a statement to that effect.

The land IS NOT biodiversity certified land (within the meaning of Part 7AA of the Threatened Species Conservation Act 1995).

ITEM 10

Biobanking agreements

If the land is land to which a biobanking agreement under *Part 7A of the Threatened Species Conservation Act 1995* relates, a statement to that effect (but only if the council has been notified of the existence of the agreement by the Director-General of the Department of Environment, Climate Change and Water).

The land IS NOT land to which a biobanking agreement under Part 7A of the Threatened Species Conservation Act 1995 relates.

ITEM 11

Bush fire prone land

If any of the land is bush fire prone land (as defined in the Act), a statement that all or, as the case may be, some of the land is bush fire prone land.

If none of the land is bush fire prone land, a statement to that effect.

The land IS NOT bush fire prone land.

ITEM 12

Property vegetation plans

If the land is land to which a property vegetation plan under the *Native Vegetation Act 2003* applies, a statement to that effect (but only if the council has been notified of the existence of the plan by the person or body that approved the plan under that Act).

No.

ITEM 13

Orders under Trees (Disputes Between Neighbours) Act 2006

Whether an order has been made under the *Trees (Disputes Between Neighbours) Act 2006* to carry out work in relation to a tree on the land (but only if the council has been notified of the order).

No.

ITEM 14

Directions under Part 3A

If there is a direction by the Minister in force under section 75P (2) (c1) of the Act that a provision of an environmental planning instrument prohibiting or restricting the carrying out of a project or a stage of a project on the land under Part 4 of the Act does not have effect, a statement to that effect identifying the provision that does not have effect.

No.

ITEM 15

Site compatibility certificates and conditions for seniors housing

If the land is land to which *State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004* applies:

(a) a statement of whether there is a current site compatibility certificate (seniors housing), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
   (i) the period for which the certificate is current, and
   (ii) that a copy may be obtained from the head office of the Department of Planning, and

(b) a statement setting out any terms of a kind referred to in clause 18 (2) of that Policy that have been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land.

Item 15(a)

There IS NOT a current site compatibility certificate (seniors housing) relating to the land

Item 15(b)

There ARE NO applicable terms of a kind referred to in clause 18(2) of that Policy that have been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land

ITEM 16

Site compatibility certificate for Infrastructure

A statement of whether there is a valid site compatibility certificate (infrastructure), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
(a) the period for which the certificate is valid, and
(b) that a copy may be obtained from the head office of the Department of Planning.

There IS NOT a current site compatibility certificate (infrastructure) relating to the land

ITEM 17

Site compatibility certificate and conditions affecting affordable rental housing

(1) A statement of whether there is a current site compatibility certificate (affordable rental housing), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
(a) the period for which the certificate is current, and
(b) that a copy may be obtained from the head office of the Department of Planning.

(2) A statement setting out any terms of a kind referred to in clause 17 (1) or 38 (1) of *State Environmental Planning Policy (Affordable Rental Housing) 2009* that have been imposed as a condition of consent to a development application in respect of the land.

Item 17(1)

There IS NOT a current site compatibility certificate (affordable rental housing) relating to the land

Item 17(2)

There ARE NO applicable terms of a kind referred to in clause 17(1) or 38(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 that have been imposed as a condition of consent to a development application in respect of the land

ITEM 18

Paper subdivision information

(1) The name of any development plan adopted by a relevant authority that applies to the land or that is proposed to be subject to a consent ballot.

Nil.

(2) The date of any subdivision order that applies to the land.

Not applicable.

(3) Words and expressions used in this clause have the same meaning as they have in Part 16C of this Regulation.

Not Applicable.

ITEM 19

Site verification certificates

(1) A statement of whether there is a current site verification certificate, of which council is aware, in respect of the land and, if there is a certificate, the statement is to include:

a) the matter certified by the certificate, and

Note: A site verification certificate sets out the Director-General's opinion as to whether the land concerned is or is not biophysical strategic agricultural land or critical industry cluster land – see Division 3 of Part 4AA of the *State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007.*

b) the date on which the certificate ceases to be current (if any), and
c) that a copy may be obtained from the head office of the Department of Planning and Infrastructure

Not applicable.

ITEM 20

Loose-fill asbestos insulation

If the land includes any residential premises (within the meaning of Division 1A of Part 8 of the *Home Building Act 1989)* that are listed on the register that is required to be maintained under that Division, a statement to that effect.

No.

OTHER ITEMS (i)

Section 23 exemption or Section 24 authorisation

Whether an exemption under Section 23 or an authorisation under section 24 of the *Nation Building and Jobs Plan (State Infrastructure Delivery) Act 2009* No 1 has been issued by the Co-ordinator General in relation to the land.

An exemption under Section 23 or an authorisation under Section 24 of the Nation Building and Jobs Plan (State Infrastructure Delivery) Act 2009 No 1 HAS NOT been issued by the Co-ordinator General in relation to the land.

OTHER ITEMS (ii)

Matters arising under the Contaminated Land Management Act 1997

Section 59(2) of the *Contaminated Land Management Act 1997* prescribes the following additional matters that are to be specified in a planning certificate:
(a) that the land to which the certificate relates is significantly contaminated land within the meaning of that Act - if the land (or part of the land) is significantly contaminated land at the date when the certificate is issued,

No.

(b)	that the land to which the certificate relates is subject to a management order within the meaning of the Act - if it is subject to such an order at the date when the certificate is issued,

No.

(c)	that the land to which the certificate relates is the subject of an approved voluntary management proposal within the meaning of that Act - if it is the subject of such an approved proposal at the date when the certificate is issued,

No.

(d)	that the land to which the certificate relates is subject to an ongoing maintenance order within the meaning of the Act - if it is subject to such an order at the date when the certificate is issued,

No.

(e)	that the land to which the certificate relates is the subject of a site audit statement within the meaning of the Act - if a copy of such a statement has been provided at any time to the local authority issuing the certificate.

No.

Information provided in this planning certificate is in accordance with the matters prescribed under Schedule 4 of the Environmental Planning and Assessment Regulation 2000.

Council draws your attention to Section 149 (6) which states that a Council shall not incur any liability in respect of any advice provided in good faith pursuant to subsection (5).

This is the end of the Certificate as prescribed under section 149(2) of the Environmental Planning and Assessment Act 1979.

Please contact the Planning Services Section for further information about any instruments or affectations referred to in the Certificate.

MARCUS ROWAN
MANAGER, PLANNING SERVICES

INNER WEST COUNCIL

PLANNING CERTIFICATE UNDER SECTION 149 OF THE ENVIRONMENTAL PLANNING & ASSESSMENT ACT, 1979.

APPLICANT
S GLOBAL
Po Box 447
Southbank VIC 3205
epropertysupport@saiglobal.com

PROPERTY
34 Hercules Street
DULWICH HILL NSW 2203
Lot 7 DP 236603

PROPERTY NO.
11758

REFERENCE

In accordance with the requirements of section 149 of the Environmental Planning and Assessment Act 1979, the following prescribed matters relate to the land at the date of this certificate.

ITEM 1

Names of relevant planning instruments and DCPs

(1)	The name of each environmental planning instrument that applies to the carrying out of development on the land.

1. The following environmental planning instruments apply to the land:

- Marrickville Local Environmental Plan 2011
- deemed S.E.P.P. (Sydney Harbour Catchment) 2005
- S.E.P.P. No. 19 Bushland in Urban Areas
- S.E.P.P. No. 21 Caravan Parks
- S.E.P.P. No. 30 Intensive Agriculture
- S.E.P.P. No. 32 Urban Consolidation (Redevelopment of Urban Land)
- S.E.P.P. No. 33 Hazardous and Offensive Development
- S.E.P.P. No. 50 Canal Estate Development
- S.E.P.P. No. 55 Remediation of Land
- S.E.P.P. No. 62 Sustainable Aquaculture
- S.E.P.P. No. 64 Advertising and Signage
- S.E.P.P. No. 65 Design Quality of Residential Flat Development
- S.E.P.P. (Housing for Seniors or People with a Disability) 2004
- S.E.P.P. (Building Sustainability Index: BASIX) 2004
- S.E.P.P. (Major Development) 2005
- S.E.P.P. (Mining, Petroleum Production and Extractive Industries) 2007
- S.E.P.P. (Miscellaneous Consent Provisions) 2007
- S.E.P.P. (Infrastructure) 2007
- S.E.P.P. (Exempt and Complying Development Codes) 2008

- S.E.P.P. (Affordable Rental Housing) 2009

Any enquiries regarding these State Planning Policies should be directed to the Department of Planning on: ***1300 305 695 or 02 9228 6333.*** *Information can also be obtained from the Department's website at http://www.planning.nsw.gov.au*

(1)	The name of each proposed environmental planning instrument that will apply to the carrying out of development on the land and that is or has been the subject of community consultation or on public exhibition under the Act (unless the Director-General has notified the council that the making of the proposed instrument has been deferred indefinitely or has not been approved).

2. The following proposed environmental planning instruments apply to the land:

- None

(2)	The name of each development control plan that applies to the carrying out of development on the land.

3. The following development controls plan (D.C.P) apply to the land:

- Marrickville Development Control Plan 2011

ITEM 2

Zoning and land use under relevant LEPs

For each environmental planning instrument or proposed instrument referred to in clause 1 (other than a SEPP or proposed SEPP) that includes the land in any zone (however described):

(a) the identity of the zone, whether by reference to a name (such as "Residential Zone" or Heritage Area") or by reference to a number (such as "Zone No 2 (a)"),

(b) the purposes for which the instrument provides that development may be carried out within the zone without the need for development consent,

(c) the purposes for which the instrument provides that development may not be carried out within the zone except with development consent,

(d) the purposes for which the instrument provides that development is prohibited within the zone,

(e) whether any development standards applying to the land fix minimum land dimensions for the erection of a dwelling-house on the land and, if so, the minimum land dimensions so fixed,

(f) whether the land includes or comprises critical habitat,

(g) whether the land is in a conservation area (however described),

(h) whether an item of environmental heritage (however described) is situated on the land.

Item 2 (a), (b), (c) & (d) – Zoning and Land use table

IN2 - Light Industrial

1 Objectives of zone

•To provide a wide range of light industrial, warehouse and related land uses.

•To encourage employment opportunities and to support the viability of centres.

•To minimise any adverse effect of industry on other land uses.

•To enable other land uses that provide facilities or services to meet the day to day needs of workers in the area.

•To support and protect industrial land for industrial uses.

•To provide business and office premises for the purposes of certain art, technology, production and design sectors.

•To enable a purpose-built dwelling house to be used in certain circumstances as a dwelling house.

2 Permitted without consent

Home occupations

3 Permitted with consent

Depots; Dwelling houses; Garden centres; Hardware and building supplies; Hospitals; Industrial training facilities; Intensive plant agriculture; Kiosks; Landscaping material supplies; Light industries; Markets; Neighbourhood shops; Plant nurseries; Roads; Sewage reticulation systems; Take away food and drink premises; Vehicle sales or hire premises; Warehouse or distribution centres; Any other development not specified in item 2 or 4

4 Prohibited

Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Boat launching ramps; Boat sheds; Camping grounds; Caravan parks; Cemeteries; Charter and tourism boating facilities; Correctional centres; Crematoria; Eco-tourist facilities; Environmental facilities; Exhibition homes; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Function centres; Health services facilities; Heavy industrial storage establishments; Helipads; Highway service centres; Home occupations (sex services); Industries; Information and education facilities; Jetties; Marinas; Mooring pens; Moorings; Open cut mining; Passenger transport facilities; Port facilities; Public administration buildings; Recreation facilities (major); Recreation facilities (outdoor); Research stations; Residential accommodation; Restricted premises; Retail premises; Rural industries; Sewerage systems; Tourist and visitor accommodation; Vehicle body repair workshops; Waste or resource management facilities; Water recreation structures; Water supply systems; Wholesale supplies

Item 2 (e) – Minimum land dimensions

There are NO minimum land dimensions for the erection of a dwelling house on the land. All applications for the erection of a dwelling house will be assessed in accordance with the Environmental Planning and Assessment Act, 1979.

Item 2 (f) – Critical habitat

The land DOES NOT include or comprise critical habitat.

Item 2 (g) – Conservation Area

The land IS NOT within a heritage conservation area referred to in Schedule 5 of Marrickville Local Environmental Plan 2011

Item 2 (h) – Heritage Item

An item of environmental heritage IS NOT situated on the land under Marrickville Local Environmental Plan 2011

ITEM 2A

Zoning and land use under State Environmental Planning Policy (Sydney Region Growth Centres) 2006

To the extent that the land is within any zone (however described) under:

(a) Part 3 of the *State Environmental Planning Policy (Sydney Region Growth Centres) 2006* (**the 2006 SEPP**), or

(b) a Precinct Plan (within the meaning of the 2006 SEPP), or

(c) a proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act,

the particulars referred to in clause 2 (a)–(h) in relation to that land (with a reference to "the instrument" in any of those paragraphs being read as a reference to Part 3 of the 2006 SEPP, or the Precinct Plan or proposed Precinct Plan, as the case requires).

The land IS NOT land to which State Environmental Planning Policy (Sydney Region Growth Centres) 2006 applies.

ITEM 3

Complying development

(1) The extent to which the land is land on which complying development may be carried out under each of the codes for complying development because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.*

(2) The extent to which complying development may not be carried out on that land because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of that Policy and the reasons why it may not be carried out under those clauses.

(3) If the council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land, a statement that a restriction applies to the land, but it may not apply to all of the land, and that council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land.

Please note: The following land-based affectations may affect only part of the land parcel: ANEF25+, Acid Sulfate Soils, Heritage Item (Local and State), Heritage Conservation Area, Heritage Interim Order, Foreshore Building Line and Land Reserved for Acquisition. Please check the planning maps to determine the extent of the affectation(s) to establish if Complying Development is allowed on part of the land parcel.

General Housing Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Commercial and Industrial (New Buildings and Additions) Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Housing Alterations Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

General Development Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Commercial and Industrial Alterations Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Subdivisions Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Demolition Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Fire Safety Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

ITEM 4

Coastal protection

Whether or not the land is affected by the operation of section 38 or 39 of the *Coastal Protection Act 1979*, but only to the extent that the council has been so notified by the Department of Services, Technology and Administration.

No.

ITEM 4A

Certain information relating to beaches and coasts

(1) In relation to a coastal council – whether an order has been made under Part 4D of the *Coastal Protection Act 1979* in relation to temporary coastal protection works (within the meaning of that Act) on the land (or on public land adjacent to that land), except where the council is satisfied that such an order has been fully complied with.

NO order has been made under Part 4D of the *Coastal Protection Act 1979.*

(2) In relation to a coastal council:

(a) whether the council has been notified under section 55X of the *Coastal Protection Act 1979* that temporary coastal protection works (within the meaning of that Act) have been placed on the land (or on public land adjacent to that land), and

Council HAS NOT been notified under Section 55X of the *Coastal Protection Act 1979.*

(b) if works have been so placed – whether the council is satisfied that the works have been removed and the land restored in accordance with that Act.

Not Applicable

ITEM 4B

Annual charges under Local Government Act 1993 for coastal protection services that relate to the existing coastal protection works

In relation to a coastal council – whether the owner (or any previous owner) of the land has consented in writing to the land being subject to annual charges under section 496B of the *Local Government Act 1993* for coastal protection services that relate to existing coastal protection works (within the meaning of section 553B of that Act).

The land IS NOT subject to any annual charges under Section 496B of the *Local Government Act 1993.*

ITEM 5

Mine subsidence

Whether or not the land is proclaimed to be a mine subsidence district within the meaning of section 15 of the *Mine Subsidence Compensation Act 1961.*

No.

ITEM 6

Road widening and road realignment

Whether or not the land is affected by any road widening or road realignment under:
(a) Division 2 of Part 3 of the Roads Act 1993, or
(b) any environmental planning instrument, or
(c) any resolution of the council.

The land IS NOT affected by a road widening or road realignment under:
(i) Part 3 Division 2 of the Roads Act 1993
(ii) any environmental planning instrument; or
(iii) any resolution of the Council

ITEM 7

Council and other public authority policies on hazard risk restrictions

Whether or not the land is affected by a policy:
(a) adopted by the council, or
(b) adopted by any other public authority and notified to the council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the council,

that restricts the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulphate soils or any other risk (other than flooding).

- Council HAS adopted by resolution and in accordance with S.72 of the Environmental Planning & Assessment Act, 1979 a development control plan incorporating Council's policy on contaminated land. The Plan has been prepared substantially in accordance with State Environmental Planning Policy No. 55, and the Contaminated Land Planning Guidelines. This policy may affect development of land:

  (a) which is affected by contamination;
  (b) which has been used for certain purposes;
  (c) in respect of which there is not sufficient information about contamination;
  (d) which is proposed to be used for certain purposes;

(e) in other circumstances contained in the development control plan and policy;

and in some cases may restrict the development of land.

- Council HAS NOT by resolution (aside from the matters raised in the above item(s)) adopted a policy to restrict the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulfate soils or any other risk (other than flooding).

- Council HAS received no notification of the type described in item 7(b) from a public authority of a policy adopted by that authority that restricts the development of the land because of land slip, bushfire, tidal inundation, subsidence, acid sulfate soils or any other risk (other than flooding).

ITEM 7A

Flood related development controls information

(1)	Whether or not development on that land or part of the land for the purposes of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings (not including development for the purposes of group homes or seniors housing) is subject to flood related development controls.

Yes. Land is identified as flood-affected according to the draft Hawthorne Canal Flood Study, prepared for Council in 2015.

(2)	Whether or not development on that land or part of the land for any other purpose is subject to flood related development controls.

Yes. Land is identified as flood-affected according to the draft Hawthorne Canal Flood Study, prepared for Council in 2015.

(3)	Words and expressions in this clause have the same meaning as in the instrument set out in the Schedule to the *Standard Instrument (Local Environmental Plan) Order 2006.*

ITEM 8

Land reserved for acquisition

Whether or not any environmental planning instrument or proposed environmental planning instrument referred to in clause 1 makes provision in relation to the acquisition of the land by a public authority, as referred to in section 27 of the Act.

The land IS NOT reserved, in part or whole, for acquisition by a public authority, as referred to in section 27 of the Act, under:

(i) any environmental planning instrument
(ii) deemed environmental planning instrument; or
(iii) draft environmental planning instrument

ITEM 9

Contributions plans

The name of each contributions plan applying to the land.

- Marrickville Section 94/94A Contributions Plan 2004.
- Marrickville Section 94/94A Contributions Plan 2014.

ITEM 9A

Biodiversity certified land

If the land is biodiversity certified land (within the meaning of *Part 7AA of the Threatened Species Conservation Act 1995*) a statement to that effect.

The land IS NOT biodiversity certified land (within the meaning of Part 7AA of the Threatened Species Conservation Act 1995).

ITEM 10

Biobanking agreements

If the land is land to which a biobanking agreement under *Part 7A of the Threatened Species Conservation Act 1995* relates, a statement to that effect (but only if the council has been notified of the existence of the agreement by the Director-General of the Department of Environment, Climate Change and Water).

The land IS NOT land to which a biobanking agreement under Part 7A of the Threatened Species Conservation Act 1995 relates.

ITEM 11

Bush fire prone land

If any of the land is bush fire prone land (as defined in the Act), a statement that all or, as the case may be, some of the land is bush fire prone land.

If none of the land is bush fire prone land, a statement to that effect.

The land IS NOT bush fire prone land.

ITEM 12

Property vegetation plans

If the land is land to which a property vegetation plan under the *Native Vegetation Act 2003* applies, a statement to that effect (but only if the council has been notified of the existence of the plan by the person or body that approved the plan under that Act).

No.

ITEM 13

Orders under Trees (Disputes Between Neighbours) Act 2006

Whether an order has been made under the *Trees (Disputes Between Neighbours) Act 2006* to carry out work in relation to a tree on the land (but only if the council has been notified of the order).

No.

ITEM 14

Directions under Part 3A

If there is a direction by the Minister in force under section 75P (2) (c1) of the Act that a provision of an environmental planning instrument prohibiting or restricting the carrying out of a project or a stage of a project on the land under Part 4 of the Act does not have effect, a statement to that effect identifying the provision that does not have effect.

No.

ITEM 15

Site compatibility certificates and conditions for seniors housing

If the land is land to which *State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004* applies:

(a) a statement of whether there is a current site compatibility certificate (seniors housing), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
   (i) the period for which the certificate is current, and
   (ii) that a copy may be obtained from the head office of the Department of Planning, and

(b) a statement setting out any terms of a kind referred to in clause 18 (2) of that Policy that have been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land.

Item 15(a)

There IS NOT a current site compatibility certificate (seniors housing) relating to the land

Item 15(b)

There ARE NO applicable terms of a kind referred to in clause 18(2) of that Policy that have been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land

ITEM 16

Site compatibility certificate for Infrastructure

A statement of whether there is a valid site compatibility certificate (infrastructure), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
(a) the period for which the certificate is valid, and
(b) that a copy may be obtained from the head office of the Department of Planning.

There IS NOT a current site compatibility certificate (infrastructure) relating to the land

ITEM 17

Site compatibility certificate and conditions affecting affordable rental housing

(1) A statement of whether there is a current site compatibility certificate (affordable rental housing), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
(a) the period for which the certificate is current, and
(b) that a copy may be obtained from the head office of the Department of Planning.

(2) A statement setting out any terms of a kind referred to in clause 17 (1) or 38 (1) of *State Environmental Planning Policy (Affordable Rental Housing) 2009* that have been imposed as a condition of consent to a development application in respect of the land.

Item 17(1)

There IS NOT a current site compatibility certificate (affordable rental housing) relating to the land

Item 17(2)

There ARE NO applicable terms of a kind referred to in clause 17(1) or 38(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 that have been imposed as a condition of consent to a development application in respect of the land

ITEM 18

Paper subdivision information

(1) The name of any development plan adopted by a relevant authority that applies to the land or that is proposed to be subject to a consent ballot.

Nil.

(2) The date of any subdivision order that applies to the land.

Not applicable.

(3) Words and expressions used in this clause have the same meaning as they have in Part 16C of this Regulation.

Not Applicable.

ITEM 19

Site verification certificates

(1) A statement of whether there is a current site verification certificate, of which council is aware, in respect of the land and, if there is a certificate, the statement is to include:

a) the matter certified by the certificate, and

Note: A site verification certificate sets out the Director-General's opinion as to whether the land concerned is or is not biophysical strategic agricultural land or critical industry cluster land – see Division 3 of Part 4AA of the *State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007.*

b) the date on which the certificate ceases to be current (if any), and
c) that a copy may be obtained from the head office of the Department of Planning and Infrastructure

Not applicable.

ITEM 20

Loose-fill asbestos insulation

If the land includes any residential premises (within the meaning of Division 1A of Part 8 of the *Home Building Act 1989)* that are listed on the register that is required to be maintained under that Division, a statement to that effect.

No.

OTHER ITEMS (i)

Section 23 exemption or Section 24 authorisation

Whether an exemption under Section 23 or an authorisation under section 24 of the *Nation Building and Jobs Plan (State Infrastructure Delivery) Act 2009* No 1 has been issued by the Co-ordinator General in relation to the land.

An exemption under Section 23 or an authorisation under Section 24 of the Nation Building and Jobs Plan (State Infrastructure Delivery) Act 2009 No 1 HAS NOT been issued by the Co-ordinator General in relation to the land.

OTHER ITEMS (ii)

Matters arising under the Contaminated Land Management Act 1997

Section 59(2) of the *Contaminated Land Management Act 1997* prescribes the following additional matters that are to be specified in a planning certificate:
(a) that the land to which the certificate relates is significantly contaminated land within the meaning of that Act - if the land (or part of the land) is significantly contaminated land at the date when the certificate is issued,

No.

(b)	that the land to which the certificate relates is subject to a management order within the meaning of the Act - if it is subject to such an order at the date when the certificate is issued,

No.

(c)	that the land to which the certificate relates is the subject of an approved voluntary management proposal within the meaning of that Act - if it is the subject of such an approved proposal at the date when the certificate is issued,

No.

(d)	that the land to which the certificate relates is subject to an ongoing maintenance order within the meaning of the Act - if it is subject to such an order at the date when the certificate is issued,

No.

(e)	that the land to which the certificate relates is the subject of a site audit statement within the meaning of the Act - if a copy of such a statement has been provided at any time to the local authority issuing the certificate.

No.

Information provided in this planning certificate is in accordance with the matters prescribed under Schedule 4 of the Environmental Planning and Assessment Regulation 2000.

Council draws your attention to Section 149 (6) which states that a Council shall not incur any liability in respect of any advice provided in good faith pursuant to subsection (5).

This is the end of the Certificate as prescribed under section 149(2) of the Environmental Planning and Assessment Act 1979.

Please contact the Planning Services Section for further information about any instruments or affectations referred to in the Certificate.

MARCUS ROWAN
MANAGER, PLANNING SERVICES

INNER WEST COUNCIL

PLANNING CERTIFICATE UNDER SECTION 149 OF THE ENVIRONMENTAL PLANNING & ASSESSMENT ACT, 1979.

APPLICANT
S GLOBAL
Po Box 447
Southbank VIC 3205
epropertysupport@saiglobal.com

PROPERTY
36 Hercules Street
DULWICH HILL NSW 2203
Lot 6 DP 236603

PROPERTY NO.
11757

REFERENCE

In accordance with the requirements of section 149 of the Environmental Planning and Assessment Act 1979, the following prescribed matters relate to the land at the date of this certificate.

ITEM 1

Names of relevant planning instruments and DCPs

(1)	The name of each environmental planning instrument that applies to the carrying out of development on the land.

1. The following environmental planning instruments apply to the land:

- Marrickville Local Environmental Plan 2011
- deemed S.E.P.P. (Sydney Harbour Catchment) 2005
- S.E.P.P. No. 19 Bushland in Urban Areas
- S.E.P.P. No. 21 Caravan Parks
- S.E.P.P. No. 30 Intensive Agriculture
- S.E.P.P. No. 32 Urban Consolidation (Redevelopment of Urban Land)
- S.E.P.P. No. 33 Hazardous and Offensive Development
- S.E.P.P. No. 50 Canal Estate Development
- S.E.P.P. No. 55 Remediation of Land
- S.E.P.P. No. 62 Sustainable Aquaculture
- S.E.P.P. No. 64 Advertising and Signage
- S.E.P.P. No. 65 Design Quality of Residential Flat Development
- S.E.P.P. (Housing for Seniors or People with a Disability) 2004
- S.E.P.P. (Building Sustainability Index: BASIX) 2004
- S.E.P.P. (Major Development) 2005
- S.E.P.P. (Mining, Petroleum Production and Extractive Industries) 2007
- S.E.P.P. (Miscellaneous Consent Provisions) 2007
- S.E.P.P. (Infrastructure) 2007
- S.E.P.P. (Exempt and Complying Development Codes) 2008

- S.E.P.P. (Affordable Rental Housing) 2009

Any enquiries regarding these State Planning Policies should be directed to the Department of Planning on: ***1300 305 695 or 02 9228 6333.*** *Information can also be obtained from the Department's website at http://www.planning.nsw.gov.au*

(1)	The name of each proposed environmental planning instrument that will apply to the carrying out of development on the land and that is or has been the subject of community consultation or on public exhibition under the Act (unless the Director-General has notified the council that the making of the proposed instrument has been deferred indefinitely or has not been approved).

2. The following proposed environmental planning instruments apply to the land:

- None

(2)	The name of each development control plan that applies to the carrying out of development on the land.

3. The following development controls plan (D.C.P) apply to the land:

- Marrickville Development Control Plan 2011

ITEM 2

Zoning and land use under relevant LEPs

For each environmental planning instrument or proposed instrument referred to in clause 1 (other than a SEPP or proposed SEPP) that includes the land in any zone (however described):

(a) the identity of the zone, whether by reference to a name (such as "Residential Zone" or Heritage Area") or by reference to a number (such as "Zone No 2 (a)"),

(b) the purposes for which the instrument provides that development may be carried out within the zone without the need for development consent,

(c) the purposes for which the instrument provides that development may not be carried out within the zone except with development consent,

(d) the purposes for which the instrument provides that development is prohibited within the zone,

(e) whether any development standards applying to the land fix minimum land dimensions for the erection of a dwelling-house on the land and, if so, the minimum land dimensions so fixed,

(f) whether the land includes or comprises critical habitat,

(g) whether the land is in a conservation area (however described),

(h) whether an item of environmental heritage (however described) is situated on the land.

Item 2 (a), (b), (c) & (d) – Zoning and Land use table

IN2 - Light Industrial

1 Objectives of zone

•To provide a wide range of light industrial, warehouse and related land uses.

•To encourage employment opportunities and to support the viability of centres.

•To minimise any adverse effect of industry on other land uses.

•To enable other land uses that provide facilities or services to meet the day to day needs of workers in the area.

•To support and protect industrial land for industrial uses.

•To provide business and office premises for the purposes of certain art, technology, production and design sectors.

•To enable a purpose-built dwelling house to be used in certain circumstances as a dwelling house.

2 Permitted without consent

Home occupations

3 Permitted with consent

Depots; Dwelling houses; Garden centres; Hardware and building supplies; Hospitals; Industrial training facilities; Intensive plant agriculture; Kiosks; Landscaping material supplies; Light industries; Markets; Neighbourhood shops; Plant nurseries; Roads; Sewage reticulation systems; Take away food and drink premises; Vehicle sales or hire premises; Warehouse or distribution centres; Any other development not specified in item 2 or 4

4 Prohibited

Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Boat launching ramps; Boat sheds; Camping grounds; Caravan parks; Cemeteries; Charter and tourism boating facilities; Correctional centres; Crematoria; Eco-tourist facilities; Environmental facilities; Exhibition homes; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Function centres; Health services facilities; Heavy industrial storage establishments; Helipads; Highway service centres; Home occupations (sex services); Industries; Information and education facilities; Jetties; Marinas; Mooring pens; Moorings; Open cut mining; Passenger transport facilities; Port facilities; Public administration buildings; Recreation facilities (major); Recreation facilities (outdoor); Research stations; Residential accommodation; Restricted premises; Retail premises; Rural industries; Sewerage systems; Tourist and visitor accommodation; Vehicle body repair workshops; Waste or resource management facilities; Water recreation structures; Water supply systems; Wholesale supplies

Item 2 (e) – Minimum land dimensions

There are NO minimum land dimensions for the erection of a dwelling house on the land. All applications for the erection of a dwelling house will be assessed in accordance with the Environmental Planning and Assessment Act, 1979.

Item 2 (f) – Critical habitat

The land DOES NOT include or comprise critical habitat.

Item 2 (g) – Conservation Area

The land IS NOT within a heritage conservation area referred to in Schedule 5 of Marrickville Local Environmental Plan 2011

Item 2 (h) – Heritage Item

An item of environmental heritage IS NOT situated on the land under Marrickville Local Environmental Plan 2011

ITEM 2A

Zoning and land use under State Environmental Planning Policy (Sydney Region Growth Centres) 2006

To the extent that the land is within any zone (however described) under:

(a) Part 3 of the *State Environmental Planning Policy (Sydney Region Growth Centres) 2006* (**the 2006 SEPP**), or

(b) a Precinct Plan (within the meaning of the 2006 SEPP), or

(c) a proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act,

the particulars referred to in clause 2 (a)–(h) in relation to that land (with a reference to "the instrument" in any of those paragraphs being read as a reference to Part 3 of the 2006 SEPP, or the Precinct Plan or proposed Precinct Plan, as the case requires).

The land IS NOT land to which State Environmental Planning Policy (Sydney Region Growth Centres) 2006 applies.

ITEM 3

Complying development

(1) The extent to which the land is land on which complying development may be carried out under each of the codes for complying development because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.*

(2) The extent to which complying development may not be carried out on that land because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of that Policy and the reasons why it may not be carried out under those clauses.

(3) If the council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land, a statement that a restriction applies to the land, but it may not apply to all of the land, and that council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land.

Please note: The following land-based affectations may affect only part of the land parcel: ANEF25+, Acid Sulfate Soils, Heritage Item (Local and State), Heritage Conservation Area, Heritage Interim Order, Foreshore Building Line and Land Reserved for Acquisition. Please check the planning maps to determine the extent of the affectation(s) to establish if Complying Development is allowed on part of the land parcel.

General Housing Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Commercial and Industrial (New Buildings and Additions) Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Housing Alterations Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

General Development Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Commercial and Industrial Alterations Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Subdivisions Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Demolition Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Fire Safety Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

ITEM 4

Coastal protection

Whether or not the land is affected by the operation of section 38 or 39 of the *Coastal Protection Act 1979*, but only to the extent that the council has been so notified by the Department of Services, Technology and Administration.

No.

ITEM 4A

Certain information relating to beaches and coasts

(1) In relation to a coastal council – whether an order has been made under Part 4D of the *Coastal Protection Act 1979* in relation to temporary coastal protection works (within the meaning of that Act) on the land (or on public land adjacent to that land), except where the council is satisfied that such an order has been fully complied with.

NO order has been made under Part 4D of the *Coastal Protection Act 1979.*

(2) In relation to a coastal council:

(a) whether the council has been notified under section 55X of the *Coastal Protection Act 1979* that temporary coastal protection works (within the meaning of that Act) have been placed on the land (or on public land adjacent to that land), and

Council HAS NOT been notified under Section 55X of the *Coastal Protection Act 1979.*

(b) if works have been so placed – whether the council is satisfied that the works have been removed and the land restored in accordance with that Act.

Not Applicable

ITEM 4B

Annual charges under Local Government Act 1993 for coastal protection services that relate to the existing coastal protection works

> In relation to a coastal council – whether the owner (or any previous owner) of the land has consented in writing to the land being subject to annual charges under section 496B of the *Local Government Act 1993* for coastal protection services that relate to existing coastal protection works (within the meaning of section 553B of that Act).

The land IS NOT subject to any annual charges under Section 496B of the *Local Government Act 1993.*

ITEM 5

Mine subsidence

> Whether or not the land is proclaimed to be a mine subsidence district within the meaning of section 15 of the *Mine Subsidence Compensation Act 1961.*

No.

ITEM 6

Road widening and road realignment

> Whether or not the land is affected by any road widening or road realignment under:
> (a) Division 2 of Part 3 of the Roads Act 1993, or
> (b) any environmental planning instrument, or
> (c) any resolution of the council.

The land IS NOT affected by a road widening or road realignment under:
(i) Part 3 Division 2 of the Roads Act 1993
(ii) any environmental planning instrument; or
(iii) any resolution of the Council

ITEM 7

Council and other public authority policies on hazard risk restrictions

> Whether or not the land is affected by a policy:
> (a) adopted by the council, or
> (b) adopted by any other public authority and notified to the council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the council,
>
> that restricts the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulphate soils or any other risk (other than flooding).

- Council HAS adopted by resolution and in accordance with S.72 of the Environmental Planning & Assessment Act, 1979 a development control plan incorporating Council's policy on contaminated land. The Plan has been prepared substantially in accordance with State Environmental Planning Policy No. 55, and the Contaminated Land Planning Guidelines. This policy may affect development of land:

  (a) which is affected by contamination;
  (b) which has been used for certain purposes;
  (c) in respect of which there is not sufficient information about contamination;
  (d) which is proposed to be used for certain purposes;

(e) in other circumstances contained in the development control plan and policy;

and in some cases may restrict the development of land.

- Council HAS NOT by resolution (aside from the matters raised in the above item(s)) adopted a policy to restrict the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulfate soils or any other risk (other than flooding).

- Council HAS received no notification of the type described in item 7(b) from a public authority of a policy adopted by that authority that restricts the development of the land because of land slip, bushfire, tidal inundation, subsidence, acid sulfate soils or any other risk (other than flooding).

ITEM 7A

Flood related development controls information

(1)	Whether or not development on that land or part of the land for the purposes of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings (not including development for the purposes of group homes or seniors housing) is subject to flood related development controls.

Yes. Land is identified as flood-affected according to the draft Hawthorne Canal Flood Study, prepared for Council in 2015.

(2)	Whether or not development on that land or part of the land for any other purpose is subject to flood related development controls.

Yes. Land is identified as flood-affected according to the draft Hawthorne Canal Flood Study, prepared for Council in 2015.

(3)	Words and expressions in this clause have the same meaning as in the instrument set out in the Schedule to the *Standard Instrument (Local Environmental Plan) Order 2006.*

ITEM 8

Land reserved for acquisition

Whether or not any environmental planning instrument or proposed environmental planning instrument referred to in clause 1 makes provision in relation to the acquisition of the land by a public authority, as referred to in section 27 of the Act.

The land IS NOT reserved, in part or whole, for acquisition by a public authority, as referred to in section 27 of the Act, under:

(i) any environmental planning instrument
(ii) deemed environmental planning instrument; or
(iii) draft environmental planning instrument

ITEM 9

Contributions plans

The name of each contributions plan applying to the land.

- Marrickville Section 94/94A Contributions Plan 2004.
- Marrickville Section 94/94A Contributions Plan 2014.

ITEM 9A

Biodiversity certified land

If the land is biodiversity certified land (within the meaning of *Part 7AA of the Threatened Species Conservation Act 1995*) a statement to that effect.

The land IS NOT biodiversity certified land (within the meaning of Part 7AA of the Threatened Species Conservation Act 1995).

ITEM 10

Biobanking agreements

If the land is land to which a biobanking agreement under *Part 7A of the Threatened Species Conservation Act 1995* relates, a statement to that effect (but only if the council has been notified of the existence of the agreement by the Director-General of the Department of Environment, Climate Change and Water).

The land IS NOT land to which a biobanking agreement under Part 7A of the Threatened Species Conservation Act 1995 relates.

ITEM 11

Bush fire prone land

If any of the land is bush fire prone land (as defined in the Act), a statement that all or, as the case may be, some of the land is bush fire prone land.

If none of the land is bush fire prone land, a statement to that effect.

The land IS NOT bush fire prone land.

ITEM 12

Property vegetation plans

If the land is land to which a property vegetation plan under the *Native Vegetation Act 2003* applies, a statement to that effect (but only if the council has been notified of the existence of the plan by the person or body that approved the plan under that Act).

No.

ITEM 13

Orders under Trees (Disputes Between Neighbours) Act 2006

Whether an order has been made under the *Trees (Disputes Between Neighbours) Act 2006* to carry out work in relation to a tree on the land (but only if the council has been notified of the order).

No.

ITEM 14

Directions under Part 3A

If there is a direction by the Minister in force under section 75P (2) (c1) of the Act that a provision of an environmental planning instrument prohibiting or restricting the carrying out of a project or a stage of a project on the land under Part 4 of the Act does not have effect, a statement to that effect identifying the provision that does not have effect.

No.

ITEM 15

Site compatibility certificates and conditions for seniors housing

If the land is land to which *State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004* applies:

(a) a statement of whether there is a current site compatibility certificate (seniors housing), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
   (i) the period for which the certificate is current, and
   (ii) that a copy may be obtained from the head office of the Department of Planning, and

(b) a statement setting out any terms of a kind referred to in clause 18 (2) of that Policy that have been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land.

Item 15(a)

There IS NOT a current site compatibility certificate (seniors housing) relating to the land

Item 15(b)

There ARE NO applicable terms of a kind referred to in clause 18(2) of that Policy that have been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land

ITEM 16

Site compatibility certificate for Infrastructure

A statement of whether there is a valid site compatibility certificate (infrastructure), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
(a) the period for which the certificate is valid, and
(b) that a copy may be obtained from the head office of the Department of Planning.

There IS NOT a current site compatibility certificate (infrastructure) relating to the land

ITEM 17

Site compatibility certificate and conditions affecting affordable rental housing

(1) A statement of whether there is a current site compatibility certificate (affordable rental housing), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
(a) the period for which the certificate is current, and
(b) that a copy may be obtained from the head office of the Department of Planning.

(2) A statement setting out any terms of a kind referred to in clause 17 (1) or 38 (1) of *State Environmental Planning Policy (Affordable Rental Housing) 2009* that have been imposed as a condition of consent to a development application in respect of the land.

Item 17(1)

There IS NOT a current site compatibility certificate (affordable rental housing) relating to the land

Item 17(2)

There ARE NO applicable terms of a kind referred to in clause 17(1) or 38(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 that have been imposed as a condition of consent to a development application in respect of the land

ITEM 18

Paper subdivision information

(1) The name of any development plan adopted by a relevant authority that applies to the land or that is proposed to be subject to a consent ballot.

Nil.

(2) The date of any subdivision order that applies to the land.

Not applicable.

(3) Words and expressions used in this clause have the same meaning as they have in Part 16C of this Regulation.

Not Applicable.

ITEM 19

Site verification certificates

(1) A statement of whether there is a current site verification certificate, of which council is aware, in respect of the land and, if there is a certificate, the statement is to include:

a) the matter certified by the certificate, and

Note: A site verification certificate sets out the Director-General's opinion as to whether the land concerned is or is not biophysical strategic agricultural land or critical industry cluster land – see Division 3 of Part 4AA of the *State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007.*

b) the date on which the certificate ceases to be current (if any), and
c) that a copy may be obtained from the head office of the Department of Planning and Infrastructure

Not applicable.

ITEM 20

Loose-fill asbestos insulation

If the land includes any residential premises (within the meaning of Division 1A of Part 8 of the *Home Building Act 1989)* that are listed on the register that is required to be maintained under that Division, a statement to that effect.

No.

OTHER ITEMS (i)

Section 23 exemption or Section 24 authorisation

Whether an exemption under Section 23 or an authorisation under section 24 of the *Nation Building and Jobs Plan (State Infrastructure Delivery) Act 2009* No 1 has been issued by the Co-ordinator General in relation to the land.

An exemption under Section 23 or an authorisation under Section 24 of the Nation Building and Jobs Plan (State Infrastructure Delivery) Act 2009 No 1 HAS NOT been issued by the Co-ordinator General in relation to the land.

OTHER ITEMS (ii)

Matters arising under the Contaminated Land Management Act 1997

Section 59(2) of the *Contaminated Land Management Act 1997* prescribes the following additional matters that are to be specified in a planning certificate:
(a) that the land to which the certificate relates is significantly contaminated land within the meaning of that Act - if the land (or part of the land) is significantly contaminated land at the date when the certificate is issued,

No.

(b)	that the land to which the certificate relates is subject to a management order within the meaning of the Act - if it is subject to such an order at the date when the certificate is issued,

No.

(c)	that the land to which the certificate relates is the subject of an approved voluntary management proposal within the meaning of that Act - if it is the subject of such an approved proposal at the date when the certificate is issued,

No.

(d)	that the land to which the certificate relates is subject to an ongoing maintenance order within the meaning of the Act - if it is subject to such an order at the date when the certificate is issued,

No.

(e)	that the land to which the certificate relates is the subject of a site audit statement within the meaning of the Act - if a copy of such a statement has been provided at any time to the local authority issuing the certificate.

No.

Information provided in this planning certificate is in accordance with the matters prescribed under Schedule 4 of the Environmental Planning and Assessment Regulation 2000.

Council draws your attention to Section 149 (6) which states that a Council shall not incur any liability in respect of any advice provided in good faith pursuant to subsection (5).

This is the end of the Certificate as prescribed under section 149(2) of the Environmental Planning and Assessment Act 1979.

Please contact the Planning Services Section for further information about any instruments or affectations referred to in the Certificate.

MARCUS ROWAN
MANAGER, PLANNING SERVICES

INNER WEST COUNCIL

PLANNING CERTIFICATE UNDER SECTION 149 OF THE ENVIRONMENTAL PLANNING & ASSESSMENT ACT, 1979.

APPLICANT
S GLOBAL
Po Box 447
Southbank VIC 3205
epropertysupport@saiglobal.com

PROPERTY
38 Hercules Street
DULWICH HILL NSW 2203
Lot 5 DP 236603

PROPERTY NO.
11756

REFERENCE

In accordance with the requirements of section 149 of the Environmental Planning and Assessment Act 1979, the following prescribed matters relate to the land at the date of this certificate.

ITEM 1

Names of relevant planning instruments and DCPs

(1)	The name of each environmental planning instrument that applies to the carrying out of development on the land.

1. The following environmental planning instruments apply to the land:

- Marrickville Local Environmental Plan 2011
- deemed S.E.P.P. (Sydney Harbour Catchment) 2005
- S.E.P.P. No. 19 Bushland in Urban Areas
- S.E.P.P. No. 21 Caravan Parks
- S.E.P.P. No. 30 Intensive Agriculture
- S.E.P.P. No. 32 Urban Consolidation (Redevelopment of Urban Land)
- S.E.P.P. No. 33 Hazardous and Offensive Development
- S.E.P.P. No. 50 Canal Estate Development
- S.E.P.P. No. 55 Remediation of Land
- S.E.P.P. No. 62 Sustainable Aquaculture
- S.E.P.P. No. 64 Advertising and Signage
- S.E.P.P. No. 65 Design Quality of Residential Flat Development
- S.E.P.P. (Housing for Seniors or People with a Disability) 2004
- S.E.P.P. (Building Sustainability Index: BASIX) 2004
- S.E.P.P. (Major Development) 2005
- S.E.P.P. (Mining, Petroleum Production and Extractive Industries) 2007
- S.E.P.P. (Miscellaneous Consent Provisions) 2007
- S.E.P.P. (Infrastructure) 2007
- S.E.P.P. (Exempt and Complying Development Codes) 2008

- S.E.P.P. (Affordable Rental Housing) 2009

Any enquiries regarding these State Planning Policies should be directed to the Department of Planning on: ***1300 305 695 or 02 9228 6333.*** *Information can also be obtained from the Department's website at http://www.planning.nsw.gov.au*

(1)	The name of each proposed environmental planning instrument that will apply to the carrying out of development on the land and that is or has been the subject of community consultation or on public exhibition under the Act (unless the Director-General has notified the council that the making of the proposed instrument has been deferred indefinitely or has not been approved).

2. The following proposed environmental planning instruments apply to the land:

- None

(2)	The name of each development control plan that applies to the carrying out of development on the land.

3. The following development controls plan (D.C.P) apply to the land:

- Marrickville Development Control Plan 2011

ITEM 2

Zoning and land use under relevant LEPs

For each environmental planning instrument or proposed instrument referred to in clause 1 (other than a SEPP or proposed SEPP) that includes the land in any zone (however described):

(a) the identity of the zone, whether by reference to a name (such as "Residential Zone" or Heritage Area") or by reference to a number (such as "Zone No 2 (a)"),

(b) the purposes for which the instrument provides that development may be carried out within the zone without the need for development consent,

(c) the purposes for which the instrument provides that development may not be carried out within the zone except with development consent,

(d) the purposes for which the instrument provides that development is prohibited within the zone,

(e) whether any development standards applying to the land fix minimum land dimensions for the erection of a dwelling-house on the land and, if so, the minimum land dimensions so fixed,

(f) whether the land includes or comprises critical habitat,

(g) whether the land is in a conservation area (however described),

(h) whether an item of environmental heritage (however described) is situated on the land.

Item 2 (a), (b), (c) & (d) – Zoning and Land use table

IN2 - Light Industrial

1 Objectives of zone

•To provide a wide range of light industrial, warehouse and related land uses.

•To encourage employment opportunities and to support the viability of centres.

•To minimise any adverse effect of industry on other land uses.

•To enable other land uses that provide facilities or services to meet the day to day needs of workers in the area.

•To support and protect industrial land for industrial uses.

•To provide business and office premises for the purposes of certain art, technology, production and design sectors.

•To enable a purpose-built dwelling house to be used in certain circumstances as a dwelling house.

2 Permitted without consent

Home occupations

3 Permitted with consent

Depots; Dwelling houses; Garden centres; Hardware and building supplies; Hospitals; Industrial training facilities; Intensive plant agriculture; Kiosks; Landscaping material supplies; Light industries; Markets; Neighbourhood shops; Plant nurseries; Roads; Sewage reticulation systems; Take away food and drink premises; Vehicle sales or hire premises; Warehouse or distribution centres; Any other development not specified in item 2 or 4

4 Prohibited

Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Boat launching ramps; Boat sheds; Camping grounds; Caravan parks; Cemeteries; Charter and tourism boating facilities; Correctional centres; Crematoria; Eco-tourist facilities; Environmental facilities; Exhibition homes; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Function centres; Health services facilities; Heavy industrial storage establishments; Helipads; Highway service centres; Home occupations (sex services); Industries; Information and education facilities; Jetties; Marinas; Mooring pens; Moorings; Open cut mining; Passenger transport facilities; Port facilities; Public administration buildings; Recreation facilities (major); Recreation facilities (outdoor); Research stations; Residential accommodation; Restricted premises; Retail premises; Rural industries; Sewerage systems; Tourist and visitor accommodation; Vehicle body repair workshops; Waste or resource management facilities; Water recreation structures; Water supply systems; Wholesale supplies

Item 2 (e) – Minimum land dimensions

There are NO minimum land dimensions for the erection of a dwelling house on the land. All applications for the erection of a dwelling house will be assessed in accordance with the Environmental Planning and Assessment Act, 1979.

Item 2 (f) – Critical habitat

The land DOES NOT include or comprise critical habitat.

Item 2 (g) – Conservation Area

The land IS NOT within a heritage conservation area referred to in Schedule 5 of Marrickville Local Environmental Plan 2011

Item 2 (h) – Heritage Item

An item of environmental heritage IS NOT situated on the land under Marrickville Local Environmental Plan 2011

ITEM 2A

Zoning and land use under State Environmental Planning Policy (Sydney Region Growth Centres) 2006

To the extent that the land is within any zone (however described) under:

(a) Part 3 of the *State Environmental Planning Policy (Sydney Region Growth Centres) 2006* (**the 2006 SEPP**), or

(b) a Precinct Plan (within the meaning of the 2006 SEPP), or

(c) a proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act,

the particulars referred to in clause 2 (a)–(h) in relation to that land (with a reference to "the instrument" in any of those paragraphs being read as a reference to Part 3 of the 2006 SEPP, or the Precinct Plan or proposed Precinct Plan, as the case requires).

The land IS NOT land to which State Environmental Planning Policy (Sydney Region Growth Centres) 2006 applies.

ITEM 3

Complying development

(1) The extent to which the land is land on which complying development may be carried out under each of the codes for complying development because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.*

(2) The extent to which complying development may not be carried out on that land because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of that Policy and the reasons why it may not be carried out under those clauses.

(3) If the council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land, a statement that a restriction applies to the land, but it may not apply to all of the land, and that council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land.

Please note: The following land-based affectations may affect only part of the land parcel: ANEF25+, Acid Sulfate Soils, Heritage Item (Local and State), Heritage Conservation Area, Heritage Interim Order, Foreshore Building Line and Land Reserved for Acquisition. Please check the planning maps to determine the extent of the affectation(s) to establish if Complying Development is allowed on part of the land parcel.

General Housing Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Commercial and Industrial (New Buildings and Additions) Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Housing Alterations Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

General Development Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Commercial and Industrial Alterations Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Subdivisions Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Demolition Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Fire Safety Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

ITEM 4

Coastal protection

Whether or not the land is affected by the operation of section 38 or 39 of the *Coastal Protection Act 1979*, but only to the extent that the council has been so notified by the Department of Services, Technology and Administration.

No.

ITEM 4A

Certain information relating to beaches and coasts

(1) In relation to a coastal council – whether an order has been made under Part 4D of the *Coastal Protection Act 1979* in relation to temporary coastal protection works (within the meaning of that Act) on the land (or on public land adjacent to that land), except where the council is satisfied that such an order has been fully complied with.

NO order has been made under Part 4D of the *Coastal Protection Act 1979.*

(2) In relation to a coastal council:

(a) whether the council has been notified under section 55X of the *Coastal Protection Act 1979* that temporary coastal protection works (within the meaning of that Act) have been placed on the land (or on public land adjacent to that land), and

Council HAS NOT been notified under Section 55X of the *Coastal Protection Act 1979.*

(b) if works have been so placed – whether the council is satisfied that the works have been removed and the land restored in accordance with that Act.

Not Applicable

ITEM 4B

Annual charges under Local Government Act 1993 for coastal protection services that relate to the existing coastal protection works

In relation to a coastal council – whether the owner (or any previous owner) of the land has consented in writing to the land being subject to annual charges under section 496B of the *Local Government Act 1993* for coastal protection services that relate to existing coastal protection works (within the meaning of section 553B of that Act).

The land IS NOT subject to any annual charges under Section 496B of the *Local Government Act 1993.*

ITEM 5

Mine subsidence

Whether or not the land is proclaimed to be a mine subsidence district within the meaning of section 15 of the *Mine Subsidence Compensation Act 1961.*

No.

ITEM 6

Road widening and road realignment

Whether or not the land is affected by any road widening or road realignment under:
(a) Division 2 of Part 3 of the Roads Act 1993, or
(b) any environmental planning instrument, or
(c) any resolution of the council.

The land IS NOT affected by a road widening or road realignment under:
(i) Part 3 Division 2 of the Roads Act 1993
(ii) any environmental planning instrument; or
(iii) any resolution of the Council

ITEM 7

Council and other public authority policies on hazard risk restrictions

Whether or not the land is affected by a policy:
(a) adopted by the council, or
(b) adopted by any other public authority and notified to the council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the council,

that restricts the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulphate soils or any other risk (other than flooding).

- Council HAS adopted by resolution and in accordance with S.72 of the Environmental Planning & Assessment Act, 1979 a development control plan incorporating Council's policy on contaminated land. The Plan has been prepared substantially in accordance with State Environmental Planning Policy No. 55, and the Contaminated Land Planning Guidelines. This policy may affect development of land:

  (a) which is affected by contamination;
  (b) which has been used for certain purposes;
  (c) in respect of which there is not sufficient information about contamination;
  (d) which is proposed to be used for certain purposes;

(e) in other circumstances contained in the development control plan and policy;

and in some cases may restrict the development of land.

- Council HAS NOT by resolution (aside from the matters raised in the above item(s)) adopted a policy to restrict the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulfate soils or any other risk (other than flooding).

- Council HAS received no notification of the type described in item 7(b) from a public authority of a policy adopted by that authority that restricts the development of the land because of land slip, bushfire, tidal inundation, subsidence, acid sulfate soils or any other risk (other than flooding).

ITEM 7A

Flood related development controls information

(1)	Whether or not development on that land or part of the land for the purposes of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings (not including development for the purposes of group homes or seniors housing) is subject to flood related development controls.

No.

(2)	Whether or not development on that land or part of the land for any other purpose is subject to flood related development controls.

No.

(3)	Words and expressions in this clause have the same meaning as in the instrument set out in the Schedule to the *Standard Instrument (Local Environmental Plan) Order 2006.*

ITEM 8

Land reserved for acquisition

Whether or not any environmental planning instrument or proposed environmental planning instrument referred to in clause 1 makes provision in relation to the acquisition of the land by a public authority, as referred to in section 27 of the Act.

The land IS NOT reserved, in part or whole, for acquisition by a public authority, as referred to in section 27 of the Act, under:

(i) any environmental planning instrument
(ii) deemed environmental planning instrument; or
(iii) draft environmental planning instrument

ITEM 9

Contributions plans

The name of each contributions plan applying to the land.

- Marrickville Section 94/94A Contributions Plan 2004.
- Marrickville Section 94/94A Contributions Plan 2014.

ITEM 9A

Biodiversity certified land

If the land is biodiversity certified land (within the meaning of *Part 7AA of the Threatened Species Conservation Act 1995*) a statement to that effect.

The land IS NOT biodiversity certified land (within the meaning of Part 7AA of the Threatened Species Conservation Act 1995).

ITEM 10

Biobanking agreements

If the land is land to which a biobanking agreement under *Part 7A of the Threatened Species Conservation Act 1995* relates, a statement to that effect (but only if the council has been notified of the existence of the agreement by the Director-General of the Department of Environment, Climate Change and Water).

The land IS NOT land to which a biobanking agreement under Part 7A of the Threatened Species Conservation Act 1995 relates.

ITEM 11

Bush fire prone land

If any of the land is bush fire prone land (as defined in the Act), a statement that all or, as the case may be, some of the land is bush fire prone land.

If none of the land is bush fire prone land, a statement to that effect.

The land IS NOT bush fire prone land.

ITEM 12

Property vegetation plans

If the land is land to which a property vegetation plan under the *Native Vegetation Act 2003* applies, a statement to that effect (but only if the council has been notified of the existence of the plan by the person or body that approved the plan under that Act).

No.

ITEM 13

Orders under Trees (Disputes Between Neighbours) Act 2006

Whether an order has been made under the *Trees (Disputes Between Neighbours) Act 2006* to carry out work in relation to a tree on the land (but only if the council has been notified of the order).

No.

ITEM 14

Directions under Part 3A

If there is a direction by the Minister in force under section 75P (2) (c1) of the Act that a provision of an environmental planning instrument prohibiting or restricting the carrying out of a project or a stage of a project on the land under Part 4 of the Act does not have effect, a statement to that effect identifying the provision that does not have effect.

No.

ITEM 15

Site compatibility certificates and conditions for seniors housing

If the land is land to which *State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004* applies:

(a) a statement of whether there is a current site compatibility certificate (seniors housing), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
   (i) the period for which the certificate is current, and
   (ii) that a copy may be obtained from the head office of the Department of Planning, and

(b) a statement setting out any terms of a kind referred to in clause 18 (2) of that Policy that have been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land.

Item 15(a)

There IS NOT a current site compatibility certificate (seniors housing) relating to the land

Item 15(b)

There ARE NO applicable terms of a kind referred to in clause 18(2) of that Policy that have been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land

ITEM 16

Site compatibility certificate for Infrastructure

A statement of whether there is a valid site compatibility certificate (infrastructure), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
(a) the period for which the certificate is valid, and
(b) that a copy may be obtained from the head office of the Department of Planning.

There IS NOT a current site compatibility certificate (infrastructure) relating to the land

ITEM 17

Site compatibility certificate and conditions affecting affordable rental housing

(1) A statement of whether there is a current site compatibility certificate (affordable rental housing), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
(a) the period for which the certificate is current, and
(b) that a copy may be obtained from the head office of the Department of Planning.

(2) A statement setting out any terms of a kind referred to in clause 17 (1) or 38 (1) of *State Environmental Planning Policy (Affordable Rental Housing) 2009* that have been imposed as a condition of consent to a development application in respect of the land.

Item 17(1)

There IS NOT a current site compatibility certificate (affordable rental housing) relating to the land

Item 17(2)

There ARE NO applicable terms of a kind referred to in clause 17(1) or 38(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 that have been imposed as a condition of consent to a development application in respect of the land

ITEM 18

Paper subdivision information

(1) The name of any development plan adopted by a relevant authority that applies to the land or that is proposed to be subject to a consent ballot.

Nil.

(2) The date of any subdivision order that applies to the land.

Not applicable.

(3) Words and expressions used in this clause have the same meaning as they have in Part 16C of this Regulation.

Not Applicable.

ITEM 19

Site verification certificates

(1) A statement of whether there is a current site verification certificate, of which council is aware, in respect of the land and, if there is a certificate, the statement is to include:

a) the matter certified by the certificate, and

Note: A site verification certificate sets out the Director-General's opinion as to whether the land concerned is or is not biophysical strategic agricultural land or critical industry cluster land – see Division 3 of Part 4AA of the *State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007.*

b) the date on which the certificate ceases to be current (if any), and
c) that a copy may be obtained from the head office of the Department of Planning and Infrastructure

Not applicable.

ITEM 20

Loose-fill asbestos insulation

If the land includes any residential premises (within the meaning of Division 1A of Part 8 of the *Home Building Act 1989)* that are listed on the register that is required to be maintained under that Division, a statement to that effect.

No.

OTHER ITEMS (i)

Section 23 exemption or Section 24 authorisation

Whether an exemption under Section 23 or an authorisation under section 24 of the *Nation Building and Jobs Plan (State Infrastructure Delivery) Act 2009* No 1 has been issued by the Co-ordinator General in relation to the land.

An exemption under Section 23 or an authorisation under Section 24 of the Nation Building and Jobs Plan (State Infrastructure Delivery) Act 2009 No 1 HAS NOT been issued by the Co-ordinator General in relation to the land.

OTHER ITEMS (ii)

Matters arising under the Contaminated Land Management Act 1997

Section 59(2) of the *Contaminated Land Management Act 1997* prescribes the following additional matters that are to be specified in a planning certificate:
(a) that the land to which the certificate relates is significantly contaminated land within the meaning of that Act - if the land (or part of the land) is significantly contaminated land at the date when the certificate is issued,

No.

(b)	that the land to which the certificate relates is subject to a management order within the meaning of the Act - if it is subject to such an order at the date when the certificate is issued,

No.

(c)	that the land to which the certificate relates is the subject of an approved voluntary management proposal within the meaning of that Act - if it is the subject of such an approved proposal at the date when the certificate is issued,

No.

(d)	that the land to which the certificate relates is subject to an ongoing maintenance order within the meaning of the Act - if it is subject to such an order at the date when the certificate is issued,

No.

(e)	that the land to which the certificate relates is the subject of a site audit statement within the meaning of the Act - if a copy of such a statement has been provided at any time to the local authority issuing the certificate.

No.

Information provided in this planning certificate is in accordance with the matters prescribed under Schedule 4 of the Environmental Planning and Assessment Regulation 2000.

Council draws your attention to Section 149 (6) which states that a Council shall not incur any liability in respect of any advice provided in good faith pursuant to subsection (5).

This is the end of the Certificate as prescribed under section 149(2) of the Environmental Planning and Assessment Act 1979.

Please contact the Planning Services Section for further information about any instruments or affectations referred to in the Certificate.

MARCUS ROWAN
MANAGER, PLANNING SERVICES

INNER WEST COUNCIL

PLANNING CERTIFICATE UNDER SECTION 149 OF THE ENVIRONMENTAL PLANNING & ASSESSMENT ACT, 1979.

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Lot 1 DP 542147

PROPERTY NO.
18195

REFERENCE

In accordance with the requirements of section 149 of the Environmental Planning and Assessment Act 1979, the following prescribed matters relate to the land at the date of this certificate.

ITEM 1

Names of relevant planning instruments and DCPs

(1)	The name of each environmental planning instrument that applies to the carrying out of development on the land.

1. The following environmental planning instruments apply to the land:

- Marrickville Local Environmental Plan 2011
- deemed S.E.P.P. (Sydney Harbour Catchment) 2005
- S.E.P.P. No. 19 Bushland in Urban Areas
- S.E.P.P. No. 21 Caravan Parks
- S.E.P.P. No. 30 Intensive Agriculture
- S.E.P.P. No. 32 Urban Consolidation (Redevelopment of Urban Land)
- S.E.P.P. No. 33 Hazardous and Offensive Development
- S.E.P.P. No. 50 Canal Estate Development
- S.E.P.P. No. 55 Remediation of Land
- S.E.P.P. No. 62 Sustainable Aquaculture
- S.E.P.P. No. 64 Advertising and Signage
- S.E.P.P. No. 65 Design Quality of Residential Flat Development
- S.E.P.P. (Housing for Seniors or People with a Disability) 2004
- S.E.P.P. (Building Sustainability Index: BASIX) 2004
- S.E.P.P. (Major Development) 2005
- S.E.P.P. (Mining, Petroleum Production and Extractive Industries) 2007
- S.E.P.P. (Miscellaneous Consent Provisions) 2007
- S.E.P.P. (Infrastructure) 2007
- S.E.P.P. (Exempt and Complying Development Codes) 2008

- S.E.P.P. (Affordable Rental Housing) 2009

Any enquiries regarding these State Planning Policies should be directed to the Department of Planning on: ***1300 305 695 or 02 9228 6333.*** *Information can also be obtained from the Department's website at http://www.planning.nsw.gov.au*

(1)	The name of each proposed environmental planning instrument that will apply to the carrying out of development on the land and that is or has been the subject of community consultation or on public exhibition under the Act (unless the Director-General has notified the council that the making of the proposed instrument has been deferred indefinitely or has not been approved).

2. The following proposed environmental planning instruments apply to the land:

- None

(2)	The name of each development control plan that applies to the carrying out of development on the land.

3. The following development controls plan (D.C.P) apply to the land:

- Marrickville Development Control Plan 2011

ITEM 2

Zoning and land use under relevant LEPs

For each environmental planning instrument or proposed instrument referred to in clause 1 (other than a SEPP or proposed SEPP) that includes the land in any zone (however described):

(a) the identity of the zone, whether by reference to a name (such as "Residential Zone" or Heritage Area") or by reference to a number (such as "Zone No 2 (a)"),

(b) the purposes for which the instrument provides that development may be carried out within the zone without the need for development consent,

(c) the purposes for which the instrument provides that development may not be carried out within the zone except with development consent,

(d) the purposes for which the instrument provides that development is prohibited within the zone,

(e) whether any development standards applying to the land fix minimum land dimensions for the erection of a dwelling-house on the land and, if so, the minimum land dimensions so fixed,

(f) whether the land includes or comprises critical habitat,

(g) whether the land is in a conservation area (however described),

(h) whether an item of environmental heritage (however described) is situated on the land.

Item 2 (a), (b), (c) & (d) – Zoning and Land use table

IN2 - Light Industrial

1 Objectives of zone

•To provide a wide range of light industrial, warehouse and related land uses.

•To encourage employment opportunities and to support the viability of centres.

•To minimise any adverse effect of industry on other land uses.

•To enable other land uses that provide facilities or services to meet the day to day needs of workers in the area.

•To support and protect industrial land for industrial uses.

•To provide business and office premises for the purposes of certain art, technology, production and design sectors.

•To enable a purpose-built dwelling house to be used in certain circumstances as a dwelling house.

2 Permitted without consent

Home occupations

3 Permitted with consent

Depots; Dwelling houses; Garden centres; Hardware and building supplies; Hospitals; Industrial training facilities; Intensive plant agriculture; Kiosks; Landscaping material supplies; Light industries; Markets; Neighbourhood shops; Plant nurseries; Roads; Sewage reticulation systems; Take away food and drink premises; Vehicle sales or hire premises; Warehouse or distribution centres; Any other development not specified in item 2 or 4

4 Prohibited

Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Boat launching ramps; Boat sheds; Camping grounds; Caravan parks; Cemeteries; Charter and tourism boating facilities; Correctional centres; Crematoria; Eco-tourist facilities; Environmental facilities; Exhibition homes; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Function centres; Health services facilities; Heavy industrial storage establishments; Helipads; Highway service centres; Home occupations (sex services); Industries; Information and education facilities; Jetties; Marinas; Mooring pens; Moorings; Open cut mining; Passenger transport facilities; Port facilities; Public administration buildings; Recreation facilities (major); Recreation facilities (outdoor); Research stations; Residential accommodation; Restricted premises; Retail premises; Rural industries; Sewerage systems; Tourist and visitor accommodation; Vehicle body repair workshops; Waste or resource management facilities; Water recreation structures; Water supply systems; Wholesale supplies

Item 2 (e) – Minimum land dimensions

There are NO minimum land dimensions for the erection of a dwelling house on the land. All applications for the erection of a dwelling house will be assessed in accordance with the Environmental Planning and Assessment Act, 1979.

Item 2 (f) – Critical habitat

The land DOES NOT include or comprise critical habitat.

Item 2 (g) – Conservation Area

The land IS NOT within a heritage conservation area referred to in Schedule 5 of Marrickville Local Environmental Plan 2011

Item 2 (h) – Heritage Item

An item of environmental heritage IS NOT situated on the land under Marrickville Local Environmental Plan 2011

ITEM 2A

Zoning and land use under State Environmental Planning Policy (Sydney Region Growth Centres) 2006

To the extent that the land is within any zone (however described) under:

(a) Part 3 of the *State Environmental Planning Policy (Sydney Region Growth Centres) 2006* (**the 2006 SEPP**), or

(b) a Precinct Plan (within the meaning of the 2006 SEPP), or

(c) a proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act,

the particulars referred to in clause 2 (a)–(h) in relation to that land (with a reference to "the instrument" in any of those paragraphs being read as a reference to Part 3 of the 2006 SEPP, or the Precinct Plan or proposed Precinct Plan, as the case requires).

The land IS NOT land to which State Environmental Planning Policy (Sydney Region Growth Centres) 2006 applies.

ITEM 3

Complying development

(1) The extent to which the land is land on which complying development may be carried out under each of the codes for complying development because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.*

(2) The extent to which complying development may not be carried out on that land because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of that Policy and the reasons why it may not be carried out under those clauses.

(3) If the council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land, a statement that a restriction applies to the land, but it may not apply to all of the land, and that council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land.

Please note: The following land-based affectations may affect only part of the land parcel: ANEF25+, Acid Sulfate Soils, Heritage Item (Local and State), Heritage Conservation Area, Heritage Interim Order, Foreshore Building Line and Land Reserved for Acquisition. Please check the planning maps to determine the extent of the affectation(s) to establish if Complying Development is allowed on part of the land parcel.

General Housing Code

No. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may not be carried out on this land.

The land is excluded land identified as being less than 200sqm in area

Commercial and Industrial (New Buildings and Additions) Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Housing Alterations Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

General Development Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Commercial and Industrial Alterations Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Subdivisions Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Demolition Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Fire Safety Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

ITEM 4

Coastal protection

Whether or not the land is affected by the operation of section 38 or 39 of the *Coastal Protection Act 1979*, but only to the extent that the council has been so notified by the Department of Services, Technology and Administration.

No.

ITEM 4A

Certain information relating to beaches and coasts

(1) In relation to a coastal council – whether an order has been made under Part 4D of the *Coastal Protection Act 1979* in relation to temporary coastal protection works (within the meaning of that Act) on the land (or on public land adjacent to that land), except where the council is satisfied that such an order has been fully complied with.

NO order has been made under Part 4D of the *Coastal Protection Act 1979.*

(2) In relation to a coastal council:

(a) whether the council has been notified under section 55X of the *Coastal Protection Act 1979* that temporary coastal protection works (within the meaning of that Act) have been placed on the land (or on public land adjacent to that land), and

Council HAS NOT been notified under Section 55X of the *Coastal Protection Act 1979.*

(b)	if works have been so placed – whether the council is satisfied that the works have been removed and the land restored in accordance with that Act.

Not Applicable

ITEM 4B

Annual charges under Local Government Act 1993 for coastal protection services that relate to the existing coastal protection works

In relation to a coastal council – whether the owner (or any previous owner) of the land has consented in writing to the land being subject to annual charges under section 496B of the *Local Government Act 1993* for coastal protection services that relate to existing coastal protection works (within the meaning of section 553B of that Act).

The land IS NOT subject to any annual charges under Section 496B of the *Local Government Act 1993.*

ITEM 5

Mine subsidence

Whether or not the land is proclaimed to be a mine subsidence district within the meaning of section 15 of the *Mine Subsidence Compensation Act 1961.*

No.

ITEM 6

Road widening and road realignment

Whether or not the land is affected by any road widening or road realignment under:
(a) Division 2 of Part 3 of the Roads Act 1993, or
(b) any environmental planning instrument, or
(c) any resolution of the council.

The land IS NOT affected by a road widening or road realignment under:
(i) Part 3 Division 2 of the Roads Act 1993
(ii) any environmental planning instrument; or
(iii) any resolution of the Council

ITEM 7

Council and other public authority policies on hazard risk restrictions

Whether or not the land is affected by a policy:
(a) adopted by the council, or
(b) adopted by any other public authority and notified to the council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the council,

that restricts the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulphate soils or any other risk (other than flooding).

- Council HAS adopted by resolution and in accordance with S.72 of the Environmental Planning & Assessment Act, 1979 a development control plan incorporating Council's policy on contaminated land. The Plan has been prepared substantially in accordance with State Environmental Planning Policy No. 55, and the Contaminated Land Planning Guidelines. This policy may affect development of land:

  (a) which is affected by contamination;
  (b) which has been used for certain purposes;
  (c) in respect of which there is not sufficient information about contamination;
  (d) which is proposed to be used for certain purposes;
  (e) in other circumstances contained in the development control plan and policy;

  and in some cases may restrict the development of land.

- Council HAS NOT by resolution (aside from the matters raised in the above item(s)) adopted a policy to restrict the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulfate soils or any other risk (other than flooding).

- Council HAS received no notification of the type described in item 7(b) from a public authority of a policy adopted by that authority that restricts the development of the land because of land slip, bushfire, tidal inundation, subsidence, acid sulfate soils or any other risk (other than flooding).

ITEM 7A

Flood related development controls information

(1) Whether or not development on that land or part of the land for the purposes of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings (not including development for the purposes of group homes or seniors housing) is subject to flood related development controls.

Yes. Land is identified as flood-affected according to the draft Hawthorne Canal Flood Study, prepared for Council in 2015.

(2) Whether or not development on that land or part of the land for any other purpose is subject to flood related development controls.

Yes. Land is identified as flood-affected according to the draft Hawthorne Canal Flood Study, prepared for Council in 2015.

(3) Words and expressions in this clause have the same meaning as in the instrument set out in the Schedule to the *Standard Instrument (Local Environmental Plan) Order 2006.*

ITEM 8

Land reserved for acquisition

Whether or not any environmental planning instrument or proposed environmental planning instrument referred to in clause 1 makes provision in relation to the acquisition of the land by a public authority, as referred to in section 27 of the Act.

The land IS NOT reserved, in part or whole, for acquisition by a public authority, as referred to in section 27 of the Act, under:

(i) any environmental planning instrument
(ii) deemed environmental planning instrument; or
(iii) draft environmental planning instrument

ITEM 9

Contributions plans

The name of each contributions plan applying to the land.

- Marrickville Section 94/94A Contributions Plan 2004.
- Marrickville Section 94/94A Contributions Plan 2014.

ITEM 9A

Biodiversity certified land

If the land is biodiversity certified land (within the meaning of *Part 7AA of the Threatened Species Conservation Act 1995*) a statement to that effect.

The land IS NOT biodiversity certified land (within the meaning of Part 7AA of the Threatened Species Conservation Act 1995).

ITEM 10

Biobanking agreements

If the land is land to which a biobanking agreement under *Part 7A of the Threatened Species Conservation Act 1995* relates, a statement to that effect (but only if the council has been notified of the existence of the agreement by the Director-General of the Department of Environment, Climate Change and Water).

The land IS NOT land to which a biobanking agreement under Part 7A of the Threatened Species Conservation Act 1995 relates.

ITEM 11

Bush fire prone land

If any of the land is bush fire prone land (as defined in the Act), a statement that all or, as the case may be, some of the land is bush fire prone land.

If none of the land is bush fire prone land, a statement to that effect.

The land IS NOT bush fire prone land.

ITEM 12

Property vegetation plans

If the land is land to which a property vegetation plan under the *Native Vegetation Act 2003* applies, a statement to that effect (but only if the council has been notified of the existence of the plan by the person or body that approved the plan under that Act).

No.

ITEM 13

Orders under Trees (Disputes Between Neighbours) Act 2006

Whether an order has been made under the *Trees (Disputes Between Neighbours) Act 2006* to carry out work in relation to a tree on the land (but only if the council has been notified of the order).

No.

ITEM 14

Directions under Part 3A

If there is a direction by the Minister in force under section 75P (2) (c1) of the Act that a provision of an environmental planning instrument prohibiting or restricting the carrying out of a project or a stage of a project on the land under Part 4 of the Act does not have effect, a statement to that effect identifying the provision that does not have effect.

No.

ITEM 15

Site compatibility certificates and conditions for seniors housing

If the land is land to which *State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004* applies:

(a) a statement of whether there is a current site compatibility certificate (seniors housing), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
   (i) the period for which the certificate is current, and
   (ii) that a copy may be obtained from the head office of the Department of Planning, and

(b) a statement setting out any terms of a kind referred to in clause 18 (2) of that Policy that have been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land.

Item 15(a)

There IS NOT a current site compatibility certificate (seniors housing) relating to the land

Item 15(b)

There ARE NO applicable terms of a kind referred to in clause 18(2) of that Policy that have been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land

ITEM 16

Site compatibility certificate for Infrastructure

A statement of whether there is a valid site compatibility certificate (infrastructure), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
(a) the period for which the certificate is valid, and
(b) that a copy may be obtained from the head office of the Department of Planning.

There IS NOT a current site compatibility certificate (infrastructure) relating to the land

ITEM 17

Site compatibility certificate and conditions affecting affordable rental housing

(1) A statement of whether there is a current site compatibility certificate (affordable rental housing), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
(a) the period for which the certificate is current, and
(b) that a copy may be obtained from the head office of the Department of Planning.

(2) A statement setting out any terms of a kind referred to in clause 17 (1) or 38 (1) of *State Environmental Planning Policy (Affordable Rental Housing) 2009* that have been imposed as a condition of consent to a development application in respect of the land.

Item 17(1)

There IS NOT a current site compatibility certificate (affordable rental housing) relating to the land

Item 17(2)

There ARE NO applicable terms of a kind referred to in clause 17(1) or 38(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 that have been imposed as a condition of consent to a development application in respect of the land

ITEM 18

Paper subdivision information

(1) The name of any development plan adopted by a relevant authority that applies to the land or that is proposed to be subject to a consent ballot.

Nil.

(2) The date of any subdivision order that applies to the land.

Not applicable.

(3) Words and expressions used in this clause have the same meaning as they have in Part 16C of this Regulation.

Not Applicable.

ITEM 19

Site verification certificates

(1) A statement of whether there is a current site verification certificate, of which council is aware, in respect of the land and, if there is a certificate, the statement is to include:

a) the matter certified by the certificate, and

Note: A site verification certificate sets out the Director-General's opinion as to whether the land concerned is or is not biophysical strategic agricultural land or critical industry cluster land – see Division 3 of Part 4AA of the *State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007.*

b) the date on which the certificate ceases to be current (if any), and
c) that a copy may be obtained from the head office of the Department of Planning and Infrastructure

Not applicable.

ITEM 20

Loose-fill asbestos insulation

If the land includes any residential premises (within the meaning of Division 1A of Part 8 of the *Home Building Act 1989)* that are listed on the register that is required to be maintained under that Division, a statement to that effect.

No.

OTHER ITEMS (i)

Section 23 exemption or Section 24 authorisation

Whether an exemption under Section 23 or an authorisation under section 24 of the *Nation Building and Jobs Plan (State Infrastructure Delivery) Act 2009* No 1 has been issued by the Co-ordinator General in relation to the land.

An exemption under Section 23 or an authorisation under Section 24 of the Nation Building and Jobs Plan (State Infrastructure Delivery) Act 2009 No 1 HAS NOT been issued by the Co-ordinator General in relation to the land.

OTHER ITEMS (ii)

Matters arising under the Contaminated Land Management Act 1997

Section 59(2) of the *Contaminated Land Management Act 1997* prescribes the following additional matters that are to be specified in a planning certificate:
(a) that the land to which the certificate relates is significantly contaminated land within the meaning of that Act - if the land (or part of the land) is significantly contaminated land at the date when the certificate is issued,

No.

(b)	that the land to which the certificate relates is subject to a management order within the meaning of the Act - if it is subject to such an order at the date when the certificate is issued,

No.

(c)	that the land to which the certificate relates is the subject of an approved voluntary management proposal within the meaning of that Act - if it is the subject of such an approved proposal at the date when the certificate is issued,

No.

(d)	that the land to which the certificate relates is subject to an ongoing maintenance order within the meaning of the Act - if it is subject to such an order at the date when the certificate is issued,

No.

(e)	that the land to which the certificate relates is the subject of a site audit statement within the meaning of the Act - if a copy of such a statement has been provided at any time to the local authority issuing the certificate.

No.

Information provided in this planning certificate is in accordance with the matters prescribed under Schedule 4 of the Environmental Planning and Assessment Regulation 2000.

Council draws your attention to Section 149 (6) which states that a Council shall not incur any liability in respect of any advice provided in good faith pursuant to subsection (5).

This is the end of the Certificate as prescribed under section 149(2) of the Environmental Planning and Assessment Act 1979.

Please contact the Planning Services Section for further information about any instruments or affectations referred to in the Certificate.

MARCUS ROWAN
MANAGER, PLANNING SERVICES

INNER WEST COUNCIL

PLANNING CERTIFICATE UNDER SECTION 149 OF THE ENVIRONMENTAL PLANNING & ASSESSMENT ACT, 1979.

APPLICANT
S GLOBAL
Po Box 447
Southbank VIC 3205
epropertysupport@saiglobal.com

PROPERTY
468 New Canterbury Road
DULWICH HILL NSW 2203
Lot 2 DP 542147

PROPERTY NO.
18196

REFERENCE

In accordance with the requirements of section 149 of the Environmental Planning and Assessment Act 1979, the following prescribed matters relate to the land at the date of this certificate.

ITEM 1

Names of relevant planning instruments and DCPs

(1)	The name of each environmental planning instrument that applies to the carrying out of development on the land.

1. The following environmental planning instruments apply to the land:

- Marrickville Local Environmental Plan 2011
- deemed S.E.P.P. (Sydney Harbour Catchment) 2005
- S.E.P.P. No. 19 Bushland in Urban Areas
- S.E.P.P. No. 21 Caravan Parks
- S.E.P.P. No. 30 Intensive Agriculture
- S.E.P.P. No. 32 Urban Consolidation (Redevelopment of Urban Land)
- S.E.P.P. No. 33 Hazardous and Offensive Development
- S.E.P.P. No. 50 Canal Estate Development
- S.E.P.P. No. 55 Remediation of Land
- S.E.P.P. No. 62 Sustainable Aquaculture
- S.E.P.P. No. 64 Advertising and Signage
- S.E.P.P. No. 65 Design Quality of Residential Flat Development
- S.E.P.P. (Housing for Seniors or People with a Disability) 2004
- S.E.P.P. (Building Sustainability Index: BASIX) 2004
- S.E.P.P. (Major Development) 2005
- S.E.P.P. (Mining, Petroleum Production and Extractive Industries) 2007
- S.E.P.P. (Miscellaneous Consent Provisions) 2007
- S.E.P.P. (Infrastructure) 2007
- S.E.P.P. (Exempt and Complying Development Codes) 2008

- S.E.P.P. (Affordable Rental Housing) 2009

Any enquiries regarding these State Planning Policies should be directed to the Department of Planning on: ***1300 305 695 or 02 9228 6333.*** *Information can also be obtained from the Department's website at http://www.planning.nsw.gov.au*

(1)	The name of each proposed environmental planning instrument that will apply to the carrying out of development on the land and that is or has been the subject of community consultation or on public exhibition under the Act (unless the Director-General has notified the council that the making of the proposed instrument has been deferred indefinitely or has not been approved).

2. The following proposed environmental planning instruments apply to the land:

- None

(2)	The name of each development control plan that applies to the carrying out of development on the land.

3. The following development controls plan (D.C.P) apply to the land:

- Marrickville Development Control Plan 2011

ITEM 2

Zoning and land use under relevant LEPs

For each environmental planning instrument or proposed instrument referred to in clause 1 (other than a SEPP or proposed SEPP) that includes the land in any zone (however described):

(a) the identity of the zone, whether by reference to a name (such as "Residential Zone" or Heritage Area") or by reference to a number (such as "Zone No 2 (a)"),

(b) the purposes for which the instrument provides that development may be carried out within the zone without the need for development consent,

(c) the purposes for which the instrument provides that development may not be carried out within the zone except with development consent,

(d) the purposes for which the instrument provides that development is prohibited within the zone,

(e) whether any development standards applying to the land fix minimum land dimensions for the erection of a dwelling-house on the land and, if so, the minimum land dimensions so fixed,

(f) whether the land includes or comprises critical habitat,

(g) whether the land is in a conservation area (however described),

(h) whether an item of environmental heritage (however described) is situated on the land.

Item 2 (a), (b), (c) & (d) – Zoning and Land use table

IN2 - Light Industrial

1 Objectives of zone

•To provide a wide range of light industrial, warehouse and related land uses.

•To encourage employment opportunities and to support the viability of centres.

•To minimise any adverse effect of industry on other land uses.

•To enable other land uses that provide facilities or services to meet the day to day needs of workers in the area.

•To support and protect industrial land for industrial uses.

•To provide business and office premises for the purposes of certain art, technology, production and design sectors.

•To enable a purpose-built dwelling house to be used in certain circumstances as a dwelling house.

2 Permitted without consent

Home occupations

3 Permitted with consent

Depots; Dwelling houses; Garden centres; Hardware and building supplies; Hospitals; Industrial training facilities; Intensive plant agriculture; Kiosks; Landscaping material supplies; Light industries; Markets; Neighbourhood shops; Plant nurseries; Roads; Sewage reticulation systems; Take away food and drink premises; Vehicle sales or hire premises; Warehouse or distribution centres; Any other development not specified in item 2 or 4

4 Prohibited

Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Boat launching ramps; Boat sheds; Camping grounds; Caravan parks; Cemeteries; Charter and tourism boating facilities; Correctional centres; Crematoria; Eco-tourist facilities; Environmental facilities; Exhibition homes; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Function centres; Health services facilities; Heavy industrial storage establishments; Helipads; Highway service centres; Home occupations (sex services); Industries; Information and education facilities; Jetties; Marinas; Mooring pens; Moorings; Open cut mining; Passenger transport facilities; Port facilities; Public administration buildings; Recreation facilities (major); Recreation facilities (outdoor); Research stations; Residential accommodation; Restricted premises; Retail premises; Rural industries; Sewerage systems; Tourist and visitor accommodation; Vehicle body repair workshops; Waste or resource management facilities; Water recreation structures; Water supply systems; Wholesale supplies

Item 2 (e) – Minimum land dimensions

There are NO minimum land dimensions for the erection of a dwelling house on the land. All applications for the erection of a dwelling house will be assessed in accordance with the Environmental Planning and Assessment Act, 1979.

Item 2 (f) – Critical habitat

The land DOES NOT include or comprise critical habitat.

Item 2 (g) – Conservation Area

The land IS NOT within a heritage conservation area referred to in Schedule 5 of Marrickville Local Environmental Plan 2011

Item 2 (h) – Heritage Item

An item of environmental heritage IS NOT situated on the land under Marrickville Local Environmental Plan 2011

ITEM 2A

Zoning and land use under State Environmental Planning Policy (Sydney Region Growth Centres) 2006

To the extent that the land is within any zone (however described) under:

(a) Part 3 of the *State Environmental Planning Policy (Sydney Region Growth Centres) 2006* (**the 2006 SEPP**), or

(b) a Precinct Plan (within the meaning of the 2006 SEPP), or

(c) a proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act,

the particulars referred to in clause 2 (a)–(h) in relation to that land (with a reference to "the instrument" in any of those paragraphs being read as a reference to Part 3 of the 2006 SEPP, or the Precinct Plan or proposed Precinct Plan, as the case requires).

The land IS NOT land to which State Environmental Planning Policy (Sydney Region Growth Centres) 2006 applies.

ITEM 3

Complying development

(1) The extent to which the land is land on which complying development may be carried out under each of the codes for complying development because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.*

(2) The extent to which complying development may not be carried out on that land because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of that Policy and the reasons why it may not be carried out under those clauses.

(3) If the council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land, a statement that a restriction applies to the land, but it may not apply to all of the land, and that council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land.

Please note: The following land-based affectations may affect only part of the land parcel: ANEF25+, Acid Sulfate Soils, Heritage Item (Local and State), Heritage Conservation Area, Heritage Interim Order, Foreshore Building Line and Land Reserved for Acquisition. Please check the planning maps to determine the extent of the affectation(s) to establish if Complying Development is allowed on part of the land parcel.

General Housing Code

No. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may not be carried out on this land.

The land is excluded land identified as being less than 200sqm in area

Commercial and Industrial (New Buildings and Additions) Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Housing Alterations Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

General Development Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Commercial and Industrial Alterations Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Subdivisions Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Demolition Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Fire Safety Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

ITEM 4

Coastal protection

Whether or not the land is affected by the operation of section 38 or 39 of the *Coastal Protection Act 1979*, but only to the extent that the council has been so notified by the Department of Services, Technology and Administration.

No.

ITEM 4A

Certain information relating to beaches and coasts

(1) In relation to a coastal council – whether an order has been made under Part 4D of the *Coastal Protection Act 1979* in relation to temporary coastal protection works (within the meaning of that Act) on the land (or on public land adjacent to that land), except where the council is satisfied that such an order has been fully complied with.

NO order has been made under Part 4D of the *Coastal Protection Act 1979.*

(2) In relation to a coastal council:

(a) whether the council has been notified under section 55X of the *Coastal Protection Act 1979* that temporary coastal protection works (within the meaning of that Act) have been placed on the land (or on public land adjacent to that land), and

Council HAS NOT been notified under Section 55X of the *Coastal Protection Act 1979.*

(b)	if works have been so placed – whether the council is satisfied that the works have been removed and the land restored in accordance with that Act.

Not Applicable

ITEM 4B

Annual charges under Local Government Act 1993 for coastal protection services that relate to the existing coastal protection works

In relation to a coastal council – whether the owner (or any previous owner) of the land has consented in writing to the land being subject to annual charges under section 496B of the *Local Government Act 1993* for coastal protection services that relate to existing coastal protection works (within the meaning of section 553B of that Act).

The land IS NOT subject to any annual charges under Section 496B of the *Local Government Act 1993.*

ITEM 5

Mine subsidence

Whether or not the land is proclaimed to be a mine subsidence district within the meaning of section 15 of the *Mine Subsidence Compensation Act 1961.*

No.

ITEM 6

Road widening and road realignment

Whether or not the land is affected by any road widening or road realignment under:
(a) Division 2 of Part 3 of the Roads Act 1993, or
(b) any environmental planning instrument, or
(c) any resolution of the council.

The land IS NOT affected by a road widening or road realignment under:
(i) Part 3 Division 2 of the Roads Act 1993
(ii) any environmental planning instrument; or
(iii) any resolution of the Council

ITEM 7

Council and other public authority policies on hazard risk restrictions

> Whether or not the land is affected by a policy:
> (a) adopted by the council, or
> (b) adopted by any other public authority and notified to the council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the council,
>
> that restricts the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulphate soils or any other risk (other than flooding).

- Council HAS adopted by resolution and in accordance with S.72 of the Environmental Planning & Assessment Act, 1979 a development control plan incorporating Council's policy on contaminated land. The Plan has been prepared substantially in accordance with State Environmental Planning Policy No. 55, and the Contaminated Land Planning Guidelines. This policy may affect development of land:

  (a) which is affected by contamination;
  (b) which has been used for certain purposes;
  (c) in respect of which there is not sufficient information about contamination;
  (d) which is proposed to be used for certain purposes;
  (e) in other circumstances contained in the development control plan and policy;

  and in some cases may restrict the development of land.

- Council HAS NOT by resolution (aside from the matters raised in the above item(s)) adopted a policy to restrict the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulfate soils or any other risk (other than flooding).

- Council HAS received no notification of the type described in item 7(b) from a public authority of a policy adopted by that authority that restricts the development of the land because of land slip, bushfire, tidal inundation, subsidence, acid sulfate soils or any other risk (other than flooding).

ITEM 7A

Flood related development controls information

> (1) Whether or not development on that land or part of the land for the purposes of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings (not including development for the purposes of group homes or seniors housing) is subject to flood related development controls.

Yes. Land is identified as flood-affected according to the draft Hawthorne Canal Flood Study, prepared for Council in 2015.

> (2) Whether or not development on that land or part of the land for any other purpose is subject to flood related development controls.

Yes. Land is identified as flood-affected according to the draft Hawthorne Canal Flood Study, prepared for Council in 2015.

> (3) Words and expressions in this clause have the same meaning as in the instrument set out in the Schedule to the *Standard Instrument (Local Environmental Plan) Order 2006.*

ITEM 8

Land reserved for acquisition

Whether or not any environmental planning instrument or proposed environmental planning instrument referred to in clause 1 makes provision in relation to the acquisition of the land by a public authority, as referred to in section 27 of the Act.

The land IS NOT reserved, in part or whole, for acquisition by a public authority, as referred to in section 27 of the Act, under:

(i) any environmental planning instrument
(ii) deemed environmental planning instrument; or
(iii) draft environmental planning instrument

ITEM 9

Contributions plans

The name of each contributions plan applying to the land.

- Marrickville Section 94/94A Contributions Plan 2004.
- Marrickville Section 94/94A Contributions Plan 2014.

ITEM 9A

Biodiversity certified land

If the land is biodiversity certified land (within the meaning of *Part 7AA of the Threatened Species Conservation Act 1995*) a statement to that effect.

The land IS NOT biodiversity certified land (within the meaning of Part 7AA of the Threatened Species Conservation Act 1995).

ITEM 10

Biobanking agreements

If the land is land to which a biobanking agreement under *Part 7A of the Threatened Species Conservation Act 1995* relates, a statement to that effect (but only if the council has been notified of the existence of the agreement by the Director-General of the Department of Environment, Climate Change and Water).

The land IS NOT land to which a biobanking agreement under Part 7A of the Threatened Species Conservation Act 1995 relates.

ITEM 11

Bush fire prone land

If any of the land is bush fire prone land (as defined in the Act), a statement that all or, as the case may be, some of the land is bush fire prone land.

If none of the land is bush fire prone land, a statement to that effect.

The land IS NOT bush fire prone land.

ITEM 12

Property vegetation plans

If the land is land to which a property vegetation plan under the *Native Vegetation Act 2003* applies, a statement to that effect (but only if the council has been notified of the existence of the plan by the person or body that approved the plan under that Act).

No.

ITEM 13

Orders under Trees (Disputes Between Neighbours) Act 2006

Whether an order has been made under the *Trees (Disputes Between Neighbours) Act 2006* to carry out work in relation to a tree on the land (but only if the council has been notified of the order).

No.

ITEM 14

Directions under Part 3A

If there is a direction by the Minister in force under section 75P (2) (c1) of the Act that a provision of an environmental planning instrument prohibiting or restricting the carrying out of a project or a stage of a project on the land under Part 4 of the Act does not have effect, a statement to that effect identifying the provision that does not have effect.

No.

ITEM 15

Site compatibility certificates and conditions for seniors housing

If the land is land to which *State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004* applies:

(a) a statement of whether there is a current site compatibility certificate (seniors housing), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
   (i) the period for which the certificate is current, and
   (ii) that a copy may be obtained from the head office of the Department of Planning, and

(b) a statement setting out any terms of a kind referred to in clause 18 (2) of that Policy that have been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land.

Item 15(a)

There IS NOT a current site compatibility certificate (seniors housing) relating to the land

Item 15(b)

There ARE NO applicable terms of a kind referred to in clause 18(2) of that Policy that have been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land

ITEM 16

Site compatibility certificate for Infrastructure

A statement of whether there is a valid site compatibility certificate (infrastructure), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
(a) the period for which the certificate is valid, and
(b) that a copy may be obtained from the head office of the Department of Planning.

There IS NOT a current site compatibility certificate (infrastructure) relating to the land

ITEM 17

Site compatibility certificate and conditions affecting affordable rental housing

(1) A statement of whether there is a current site compatibility certificate (affordable rental housing), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
(a) the period for which the certificate is current, and
(b) that a copy may be obtained from the head office of the Department of Planning.

(2) A statement setting out any terms of a kind referred to in clause 17 (1) or 38 (1) of *State Environmental Planning Policy (Affordable Rental Housing) 2009* that have been imposed as a condition of consent to a development application in respect of the land.

Item 17(1)

There IS NOT a current site compatibility certificate (affordable rental housing) relating to the land

Item 17(2)

There ARE NO applicable terms of a kind referred to in clause 17(1) or 38(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 that have been imposed as a condition of consent to a development application in respect of the land

ITEM 18

Paper subdivision information

(1) The name of any development plan adopted by a relevant authority that applies to the land or that is proposed to be subject to a consent ballot.

Nil.

(2) The date of any subdivision order that applies to the land.

Not applicable.

(3) Words and expressions used in this clause have the same meaning as they have in Part 16C of this Regulation.

Not Applicable.

ITEM 19

Site verification certificates

(1) A statement of whether there is a current site verification certificate, of which council is aware, in respect of the land and, if there is a certificate, the statement is to include:

a) the matter certified by the certificate, and

Note: A site verification certificate sets out the Director-General's opinion as to whether the land concerned is or is not biophysical strategic agricultural land or critical industry cluster land – see Division 3 of Part 4AA of the *State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007.*

b) the date on which the certificate ceases to be current (if any), and
c) that a copy may be obtained from the head office of the Department of Planning and Infrastructure

Not applicable.

ITEM 20

Loose-fill asbestos insulation

If the land includes any residential premises (within the meaning of Division 1A of Part 8 of the *Home Building Act 1989)* that are listed on the register that is required to be maintained under that Division, a statement to that effect.

No.

OTHER ITEMS (i)

Section 23 exemption or Section 24 authorisation

Whether an exemption under Section 23 or an authorisation under section 24 of the *Nation Building and Jobs Plan (State Infrastructure Delivery) Act 2009* No 1 has been issued by the Co-ordinator General in relation to the land.

An exemption under Section 23 or an authorisation under Section 24 of the Nation Building and Jobs Plan (State Infrastructure Delivery) Act 2009 No 1 HAS NOT been issued by the Co-ordinator General in relation to the land.

OTHER ITEMS (ii)

Matters arising under the Contaminated Land Management Act 1997

Section 59(2) of the *Contaminated Land Management Act 1997* prescribes the following additional matters that are to be specified in a planning certificate:
(a) that the land to which the certificate relates is significantly contaminated land within the meaning of that Act - if the land (or part of the land) is significantly contaminated land at the date when the certificate is issued,

No.

(b)	that the land to which the certificate relates is subject to a management order within the meaning of the Act - if it is subject to such an order at the date when the certificate is issued,

No.

(c)	that the land to which the certificate relates is the subject of an approved voluntary management proposal within the meaning of that Act - if it is the subject of such an approved proposal at the date when the certificate is issued,

No.

(d)	that the land to which the certificate relates is subject to an ongoing maintenance order within the meaning of the Act - if it is subject to such an order at the date when the certificate is issued,

No.

(e)	that the land to which the certificate relates is the subject of a site audit statement within the meaning of the Act - if a copy of such a statement has been provided at any time to the local authority issuing the certificate.

No.

Information provided in this planning certificate is in accordance with the matters prescribed under Schedule 4 of the Environmental Planning and Assessment Regulation 2000.

Council draws your attention to Section 149 (6) which states that a Council shall not incur any liability in respect of any advice provided in good faith pursuant to subsection (5).

This is the end of the Certificate as prescribed under section 149(2) of the Environmental Planning and Assessment Act 1979.

Please contact the Planning Services Section for further information about any instruments or affectations referred to in the Certificate.

MARCUS ROWAN
MANAGER, PLANNING SERVICES

INNER WEST COUNCIL

PLANNING CERTIFICATE UNDER SECTION 149 OF THE ENVIRONMENTAL PLANNING & ASSESSMENT ACT, 1979.

APPLICANT
S GLOBAL
Po Box 447
Southbank VIC 3205
epropertysupport@saiglobal.com

PROPERTY
470 New Canterbury Road
DULWICH HILL NSW 2203
Lot 3 DP 542147

PROPERTY NO.
18197

REFERENCE

In accordance with the requirements of section 149 of the Environmental Planning and Assessment Act 1979, the following prescribed matters relate to the land at the date of this certificate.

ITEM 1

Names of relevant planning instruments and DCPs

(1)	The name of each environmental planning instrument that applies to the carrying out of development on the land.

1. The following environmental planning instruments apply to the land:

- Marrickville Local Environmental Plan 2011
- deemed S.E.P.P. (Sydney Harbour Catchment) 2005
- S.E.P.P. No. 19 Bushland in Urban Areas
- S.E.P.P. No. 21 Caravan Parks
- S.E.P.P. No. 30 Intensive Agriculture
- S.E.P.P. No. 32 Urban Consolidation (Redevelopment of Urban Land)
- S.E.P.P. No. 33 Hazardous and Offensive Development
- S.E.P.P. No. 50 Canal Estate Development
- S.E.P.P. No. 55 Remediation of Land
- S.E.P.P. No. 62 Sustainable Aquaculture
- S.E.P.P. No. 64 Advertising and Signage
- S.E.P.P. No. 65 Design Quality of Residential Flat Development
- S.E.P.P. (Housing for Seniors or People with a Disability) 2004
- S.E.P.P. (Building Sustainability Index: BASIX) 2004
- S.E.P.P. (Major Development) 2005
- S.E.P.P. (Mining, Petroleum Production and Extractive Industries) 2007
- S.E.P.P. (Miscellaneous Consent Provisions) 2007
- S.E.P.P. (Infrastructure) 2007
- S.E.P.P. (Exempt and Complying Development Codes) 2008

- S.E.P.P. (Affordable Rental Housing) 2009

Any enquiries regarding these State Planning Policies should be directed to the Department of Planning on: ***1300 305 695 or 02 9228 6333.*** *Information can also be obtained from the Department's website at http://www.planning.nsw.gov.au*

(1)	The name of each proposed environmental planning instrument that will apply to the carrying out of development on the land and that is or has been the subject of community consultation or on public exhibition under the Act (unless the Director-General has notified the council that the making of the proposed instrument has been deferred indefinitely or has not been approved).

2. The following proposed environmental planning instruments apply to the land:

- None

(2)	The name of each development control plan that applies to the carrying out of development on the land.

3. The following development controls plan (D.C.P) apply to the land:

- Marrickville Development Control Plan 2011

ITEM 2

Zoning and land use under relevant LEPs

For each environmental planning instrument or proposed instrument referred to in clause 1 (other than a SEPP or proposed SEPP) that includes the land in any zone (however described):

(a) the identity of the zone, whether by reference to a name (such as "Residential Zone" or Heritage Area") or by reference to a number (such as "Zone No 2 (a)"),

(b) the purposes for which the instrument provides that development may be carried out within the zone without the need for development consent,

(c) the purposes for which the instrument provides that development may not be carried out within the zone except with development consent,

(d) the purposes for which the instrument provides that development is prohibited within the zone,

(e) whether any development standards applying to the land fix minimum land dimensions for the erection of a dwelling-house on the land and, if so, the minimum land dimensions so fixed,

(f) whether the land includes or comprises critical habitat,

(g) whether the land is in a conservation area (however described),

(h) whether an item of environmental heritage (however described) is situated on the land.

Item 2 (a), (b), (c) & (d) – Zoning and Land use table

IN2 - Light Industrial

1 Objectives of zone

•To provide a wide range of light industrial, warehouse and related land uses.

•To encourage employment opportunities and to support the viability of centres.

•To minimise any adverse effect of industry on other land uses.

•To enable other land uses that provide facilities or services to meet the day to day needs of workers in the area.

•To support and protect industrial land for industrial uses.

•To provide business and office premises for the purposes of certain art, technology, production and design sectors.

•To enable a purpose-built dwelling house to be used in certain circumstances as a dwelling house.

2 Permitted without consent

Home occupations

3 Permitted with consent

Depots; Dwelling houses; Garden centres; Hardware and building supplies; Hospitals; Industrial training facilities; Intensive plant agriculture; Kiosks; Landscaping material supplies; Light industries; Markets; Neighbourhood shops; Plant nurseries; Roads; Sewage reticulation systems; Take away food and drink premises; Vehicle sales or hire premises; Warehouse or distribution centres; Any other development not specified in item 2 or 4

4 Prohibited

Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Boat launching ramps; Boat sheds; Camping grounds; Caravan parks; Cemeteries; Charter and tourism boating facilities; Correctional centres; Crematoria; Eco-tourist facilities; Environmental facilities; Exhibition homes; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Function centres; Health services facilities; Heavy industrial storage establishments; Helipads; Highway service centres; Home occupations (sex services); Industries; Information and education facilities; Jetties; Marinas; Mooring pens; Moorings; Open cut mining; Passenger transport facilities; Port facilities; Public administration buildings; Recreation facilities (major); Recreation facilities (outdoor); Research stations; Residential accommodation; Restricted premises; Retail premises; Rural industries; Sewerage systems; Tourist and visitor accommodation; Vehicle body repair workshops; Waste or resource management facilities; Water recreation structures; Water supply systems; Wholesale supplies

Item 2 (e) – Minimum land dimensions

There are NO minimum land dimensions for the erection of a dwelling house on the land. All applications for the erection of a dwelling house will be assessed in accordance with the Environmental Planning and Assessment Act, 1979.

Item 2 (f) – Critical habitat

The land DOES NOT include or comprise critical habitat.

Item 2 (g) – Conservation Area

The land IS NOT within a heritage conservation area referred to in Schedule 5 of Marrickville Local Environmental Plan 2011

Item 2 (h) – Heritage Item

An item of environmental heritage IS NOT situated on the land under Marrickville Local Environmental Plan 2011

ITEM 2A

Zoning and land use under State Environmental Planning Policy (Sydney Region Growth Centres) 2006

To the extent that the land is within any zone (however described) under:

(a) Part 3 of the *State Environmental Planning Policy (Sydney Region Growth Centres) 2006* (**the 2006 SEPP**), or

(b) a Precinct Plan (within the meaning of the 2006 SEPP), or

(c) a proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act,

the particulars referred to in clause 2 (a)–(h) in relation to that land (with a reference to "the instrument" in any of those paragraphs being read as a reference to Part 3 of the 2006 SEPP, or the Precinct Plan or proposed Precinct Plan, as the case requires).

The land IS NOT land to which State Environmental Planning Policy (Sydney Region Growth Centres) 2006 applies.

ITEM 3

Complying development

(1) The extent to which the land is land on which complying development may be carried out under each of the codes for complying development because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.*

(2) The extent to which complying development may not be carried out on that land because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of that Policy and the reasons why it may not be carried out under those clauses.

(3) If the council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land, a statement that a restriction applies to the land, but it may not apply to all of the land, and that council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land.

Please note: The following land-based affectations may affect only part of the land parcel: ANEF25+, Acid Sulfate Soils, Heritage Item (Local and State), Heritage Conservation Area, Heritage Interim Order, Foreshore Building Line and Land Reserved for Acquisition. Please check the planning maps to determine the extent of the affectation(s) to establish if Complying Development is allowed on part of the land parcel.

General Housing Code

No. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may not be carried out on this land.

The land is excluded land identified as being less than 200sqm in area

Commercial and Industrial (New Buildings and Additions) Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Housing Alterations Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

General Development Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Commercial and Industrial Alterations Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Subdivisions Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Demolition Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Fire Safety Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

ITEM 4

Coastal protection

Whether or not the land is affected by the operation of section 38 or 39 of the *Coastal Protection Act 1979*, but only to the extent that the council has been so notified by the Department of Services, Technology and Administration.

No.

ITEM 4A

Certain information relating to beaches and coasts

(1) In relation to a coastal council – whether an order has been made under Part 4D of the *Coastal Protection Act 1979* in relation to temporary coastal protection works (within the meaning of that Act) on the land (or on public land adjacent to that land), except where the council is satisfied that such an order has been fully complied with.

NO order has been made under Part 4D of the *Coastal Protection Act 1979.*

(2) In relation to a coastal council:

(a) whether the council has been notified under section 55X of the *Coastal Protection Act 1979* that temporary coastal protection works (within the meaning of that Act) have been placed on the land (or on public land adjacent to that land), and

Council HAS NOT been notified under Section 55X of the *Coastal Protection Act 1979.*

(b)	if works have been so placed – whether the council is satisfied that the works have been removed and the land restored in accordance with that Act.

Not Applicable

ITEM 4B

Annual charges under Local Government Act 1993 for coastal protection services that relate to the existing coastal protection works

In relation to a coastal council – whether the owner (or any previous owner) of the land has consented in writing to the land being subject to annual charges under section 496B of the *Local Government Act 1993* for coastal protection services that relate to existing coastal protection works (within the meaning of section 553B of that Act).

The land IS NOT subject to any annual charges under Section 496B of the *Local Government Act 1993.*

ITEM 5

Mine subsidence

Whether or not the land is proclaimed to be a mine subsidence district within the meaning of section 15 of the *Mine Subsidence Compensation Act 1961.*

No.

ITEM 6

Road widening and road realignment

Whether or not the land is affected by any road widening or road realignment under:
(a) Division 2 of Part 3 of the Roads Act 1993, or
(b) any environmental planning instrument, or
(c) any resolution of the council.

The land IS NOT affected by a road widening or road realignment under:
(i) Part 3 Division 2 of the Roads Act 1993
(ii) any environmental planning instrument; or
(iii) any resolution of the Council

ITEM 7

Council and other public authority policies on hazard risk restrictions

> Whether or not the land is affected by a policy:
> (a) adopted by the council, or
> (b) adopted by any other public authority and notified to the council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the council,
>
> that restricts the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulphate soils or any other risk (other than flooding).

- Council HAS adopted by resolution and in accordance with S.72 of the Environmental Planning & Assessment Act, 1979 a development control plan incorporating Council's policy on contaminated land. The Plan has been prepared substantially in accordance with State Environmental Planning Policy No. 55, and the Contaminated Land Planning Guidelines. This policy may affect development of land:

  (a) which is affected by contamination;
  (b) which has been used for certain purposes;
  (c) in respect of which there is not sufficient information about contamination;
  (d) which is proposed to be used for certain purposes;
  (e) in other circumstances contained in the development control plan and policy;

  and in some cases may restrict the development of land.

- Council HAS NOT by resolution (aside from the matters raised in the above item(s)) adopted a policy to restrict the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulfate soils or any other risk (other than flooding).

- Council HAS received no notification of the type described in item 7(b) from a public authority of a policy adopted by that authority that restricts the development of the land because of land slip, bushfire, tidal inundation, subsidence, acid sulfate soils or any other risk (other than flooding).

ITEM 7A

Flood related development controls information

> (1) Whether or not development on that land or part of the land for the purposes of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings (not including development for the purposes of group homes or seniors housing) is subject to flood related development controls.

Yes. Land is identified as flood-affected according to the draft Hawthorne Canal Flood Study, prepared for Council in 2015.

> (2) Whether or not development on that land or part of the land for any other purpose is subject to flood related development controls.

Yes. Land is identified as flood-affected according to the draft Hawthorne Canal Flood Study, prepared for Council in 2015.

> (3) Words and expressions in this clause have the same meaning as in the instrument set out in the Schedule to the *Standard Instrument (Local Environmental Plan) Order 2006.*

ITEM 8

Land reserved for acquisition

Whether or not any environmental planning instrument or proposed environmental planning instrument referred to in clause 1 makes provision in relation to the acquisition of the land by a public authority, as referred to in section 27 of the Act.

The land IS NOT reserved, in part or whole, for acquisition by a public authority, as referred to in section 27 of the Act, under:

(i) any environmental planning instrument
(ii) deemed environmental planning instrument; or
(iii) draft environmental planning instrument

ITEM 9

Contributions plans

The name of each contributions plan applying to the land.

- Marrickville Section 94/94A Contributions Plan 2004.
- Marrickville Section 94/94A Contributions Plan 2014.

ITEM 9A

Biodiversity certified land

If the land is biodiversity certified land (within the meaning of *Part 7AA of the Threatened Species Conservation Act 1995*) a statement to that effect.

The land IS NOT biodiversity certified land (within the meaning of Part 7AA of the Threatened Species Conservation Act 1995).

ITEM 10

Biobanking agreements

If the land is land to which a biobanking agreement under *Part 7A of the Threatened Species Conservation Act 1995* relates, a statement to that effect (but only if the council has been notified of the existence of the agreement by the Director-General of the Department of Environment, Climate Change and Water).

The land IS NOT land to which a biobanking agreement under Part 7A of the Threatened Species Conservation Act 1995 relates.

ITEM 11

Bush fire prone land

If any of the land is bush fire prone land (as defined in the Act), a statement that all or, as the case may be, some of the land is bush fire prone land.

If none of the land is bush fire prone land, a statement to that effect.

The land IS NOT bush fire prone land.

ITEM 12

Property vegetation plans

If the land is land to which a property vegetation plan under the *Native Vegetation Act 2003* applies, a statement to that effect (but only if the council has been notified of the existence of the plan by the person or body that approved the plan under that Act).

No.

ITEM 13

Orders under Trees (Disputes Between Neighbours) Act 2006

Whether an order has been made under the *Trees (Disputes Between Neighbours) Act 2006* to carry out work in relation to a tree on the land (but only if the council has been notified of the order).

No.

ITEM 14

Directions under Part 3A

If there is a direction by the Minister in force under section 75P (2) (c1) of the Act that a provision of an environmental planning instrument prohibiting or restricting the carrying out of a project or a stage of a project on the land under Part 4 of the Act does not have effect, a statement to that effect identifying the provision that does not have effect.

No.

ITEM 15

Site compatibility certificates and conditions for seniors housing

If the land is land to which *State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004* applies:

(a) a statement of whether there is a current site compatibility certificate (seniors housing), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
   (i) the period for which the certificate is current, and
   (ii) that a copy may be obtained from the head office of the Department of Planning, and

(b) a statement setting out any terms of a kind referred to in clause 18 (2) of that Policy that have been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land.

Item 15(a)

There IS NOT a current site compatibility certificate (seniors housing) relating to the land

Item 15(b)

There ARE NO applicable terms of a kind referred to in clause 18(2) of that Policy that have been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land

ITEM 16

Site compatibility certificate for Infrastructure

A statement of whether there is a valid site compatibility certificate (infrastructure), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
(a) the period for which the certificate is valid, and
(b) that a copy may be obtained from the head office of the Department of Planning.

There IS NOT a current site compatibility certificate (infrastructure) relating to the land

ITEM 17

Site compatibility certificate and conditions affecting affordable rental housing

(1) A statement of whether there is a current site compatibility certificate (affordable rental housing), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
(a) the period for which the certificate is current, and
(b) that a copy may be obtained from the head office of the Department of Planning.

(2) A statement setting out any terms of a kind referred to in clause 17 (1) or 38 (1) of *State Environmental Planning Policy (Affordable Rental Housing) 2009* that have been imposed as a condition of consent to a development application in respect of the land.

Item 17(1)

There IS NOT a current site compatibility certificate (affordable rental housing) relating to the land

Item 17(2)

There ARE NO applicable terms of a kind referred to in clause 17(1) or 38(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 that have been imposed as a condition of consent to a development application in respect of the land

ITEM 18

Paper subdivision information

(1) The name of any development plan adopted by a relevant authority that applies to the land or that is proposed to be subject to a consent ballot.

Nil.

(2) The date of any subdivision order that applies to the land.

Not applicable.

(3) Words and expressions used in this clause have the same meaning as they have in Part 16C of this Regulation.

Not Applicable.

ITEM 19

Site verification certificates

(1) A statement of whether there is a current site verification certificate, of which council is aware, in respect of the land and, if there is a certificate, the statement is to include:

a) the matter certified by the certificate, and

Note: A site verification certificate sets out the Director-General's opinion as to whether the land concerned is or is not biophysical strategic agricultural land or critical industry cluster land – see Division 3 of Part 4AA of the *State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007.*

b) the date on which the certificate ceases to be current (if any), and
c) that a copy may be obtained from the head office of the Department of Planning and Infrastructure

Not applicable.

ITEM 20

Loose-fill asbestos insulation

If the land includes any residential premises (within the meaning of Division 1A of Part 8 of the *Home Building Act 1989)* that are listed on the register that is required to be maintained under that Division, a statement to that effect.

No.

OTHER ITEMS (i)

Section 23 exemption or Section 24 authorisation

Whether an exemption under Section 23 or an authorisation under section 24 of the *Nation Building and Jobs Plan (State Infrastructure Delivery) Act 2009* No 1 has been issued by the Co-ordinator General in relation to the land.

An exemption under Section 23 or an authorisation under Section 24 of the Nation Building and Jobs Plan (State Infrastructure Delivery) Act 2009 No 1 HAS NOT been issued by the Co-ordinator General in relation to the land.

OTHER ITEMS (ii)

Matters arising under the Contaminated Land Management Act 1997

Section 59(2) of the *Contaminated Land Management Act 1997* prescribes the following additional matters that are to be specified in a planning certificate:
(a) that the land to which the certificate relates is significantly contaminated land within the meaning of that Act - if the land (or part of the land) is significantly contaminated land at the date when the certificate is issued,

No.

(b)	that the land to which the certificate relates is subject to a management order within the meaning of the Act - if it is subject to such an order at the date when the certificate is issued,

No.

(c)	that the land to which the certificate relates is the subject of an approved voluntary management proposal within the meaning of that Act - if it is the subject of such an approved proposal at the date when the certificate is issued,

No.

(d)	that the land to which the certificate relates is subject to an ongoing maintenance order within the meaning of the Act - if it is subject to such an order at the date when the certificate is issued,

No.

(e)	that the land to which the certificate relates is the subject of a site audit statement within the meaning of the Act - if a copy of such a statement has been provided at any time to the local authority issuing the certificate.

No.

Information provided in this planning certificate is in accordance with the matters prescribed under Schedule 4 of the Environmental Planning and Assessment Regulation 2000.

Council draws your attention to Section 149 (6) which states that a Council shall not incur any liability in respect of any advice provided in good faith pursuant to subsection (5).

This is the end of the Certificate as prescribed under section 149(2) of the Environmental Planning and Assessment Act 1979.

Please contact the Planning Services Section for further information about any instruments or affectations referred to in the Certificate.

MARCUS ROWAN
MANAGER, PLANNING SERVICES

INNER WEST COUNCIL

PLANNING CERTIFICATE UNDER SECTION 149 OF THE ENVIRONMENTAL PLANNING & ASSESSMENT ACT, 1979.

APPLICANT
S GLOBAL
Po Box 447
Southbank VIC 3205
epropertysupport@saiglobal.com

PROPERTY
472 New Canterbury Road
DULWICH HILL NSW 2203
Lot 4 DP 542147

PROPERTY NO.
18198

REFERENCE

In accordance with the requirements of section 149 of the Environmental Planning and Assessment Act 1979, the following prescribed matters relate to the land at the date of this certificate.

ITEM 1

Names of relevant planning instruments and DCPs

(1)	The name of each environmental planning instrument that applies to the carrying out of development on the land.

1. The following environmental planning instruments apply to the land:

- Marrickville Local Environmental Plan 2011
- deemed S.E.P.P. (Sydney Harbour Catchment) 2005
- S.E.P.P. No. 19 Bushland in Urban Areas
- S.E.P.P. No. 21 Caravan Parks
- S.E.P.P. No. 30 Intensive Agriculture
- S.E.P.P. No. 32 Urban Consolidation (Redevelopment of Urban Land)
- S.E.P.P. No. 33 Hazardous and Offensive Development
- S.E.P.P. No. 50 Canal Estate Development
- S.E.P.P. No. 55 Remediation of Land
- S.E.P.P. No. 62 Sustainable Aquaculture
- S.E.P.P. No. 64 Advertising and Signage
- S.E.P.P. No. 65 Design Quality of Residential Flat Development
- S.E.P.P. (Housing for Seniors or People with a Disability) 2004
- S.E.P.P. (Building Sustainability Index: BASIX) 2004
- S.E.P.P. (Major Development) 2005
- S.E.P.P. (Mining, Petroleum Production and Extractive Industries) 2007
- S.E.P.P. (Miscellaneous Consent Provisions) 2007
- S.E.P.P. (Infrastructure) 2007
- S.E.P.P. (Exempt and Complying Development Codes) 2008

- S.E.P.P. (Affordable Rental Housing) 2009

Any enquiries regarding these State Planning Policies should be directed to the Department of Planning on: ***1300 305 695 or 02 9228 6333.*** *Information can also be obtained from the Department's website at http://www.planning.nsw.gov.au*

(1)	The name of each proposed environmental planning instrument that will apply to the carrying out of development on the land and that is or has been the subject of community consultation or on public exhibition under the Act (unless the Director-General has notified the council that the making of the proposed instrument has been deferred indefinitely or has not been approved).

2. The following proposed environmental planning instruments apply to the land:

- None

(2)	The name of each development control plan that applies to the carrying out of development on the land.

3. The following development controls plan (D.C.P) apply to the land:

- Marrickville Development Control Plan 2011

ITEM 2

Zoning and land use under relevant LEPs

For each environmental planning instrument or proposed instrument referred to in clause 1 (other than a SEPP or proposed SEPP) that includes the land in any zone (however described):

(a) the identity of the zone, whether by reference to a name (such as "Residential Zone" or Heritage Area") or by reference to a number (such as "Zone No 2 (a)"),

(b) the purposes for which the instrument provides that development may be carried out within the zone without the need for development consent,

(c) the purposes for which the instrument provides that development may not be carried out within the zone except with development consent,

(d) the purposes for which the instrument provides that development is prohibited within the zone,

(e) whether any development standards applying to the land fix minimum land dimensions for the erection of a dwelling-house on the land and, if so, the minimum land dimensions so fixed,

(f) whether the land includes or comprises critical habitat,

(g) whether the land is in a conservation area (however described),

(h) whether an item of environmental heritage (however described) is situated on the land.

Item 2 (a), (b), (c) & (d) – Zoning and Land use table

IN2 - Light Industrial

1 Objectives of zone

•To provide a wide range of light industrial, warehouse and related land uses.

•To encourage employment opportunities and to support the viability of centres.

•To minimise any adverse effect of industry on other land uses.

•To enable other land uses that provide facilities or services to meet the day to day needs of workers in the area.

•To support and protect industrial land for industrial uses.

•To provide business and office premises for the purposes of certain art, technology, production and design sectors.

•To enable a purpose-built dwelling house to be used in certain circumstances as a dwelling house.

2 Permitted without consent

Home occupations

3 Permitted with consent

Depots; Dwelling houses; Garden centres; Hardware and building supplies; Hospitals; Industrial training facilities; Intensive plant agriculture; Kiosks; Landscaping material supplies; Light industries; Markets; Neighbourhood shops; Plant nurseries; Roads; Sewage reticulation systems; Take away food and drink premises; Vehicle sales or hire premises; Warehouse or distribution centres; Any other development not specified in item 2 or 4

4 Prohibited

Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Boat launching ramps; Boat sheds; Camping grounds; Caravan parks; Cemeteries; Charter and tourism boating facilities; Correctional centres; Crematoria; Eco-tourist facilities; Environmental facilities; Exhibition homes; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Function centres; Health services facilities; Heavy industrial storage establishments; Helipads; Highway service centres; Home occupations (sex services); Industries; Information and education facilities; Jetties; Marinas; Mooring pens; Moorings; Open cut mining; Passenger transport facilities; Port facilities; Public administration buildings; Recreation facilities (major); Recreation facilities (outdoor); Research stations; Residential accommodation; Restricted premises; Retail premises; Rural industries; Sewerage systems; Tourist and visitor accommodation; Vehicle body repair workshops; Waste or resource management facilities; Water recreation structures; Water supply systems; Wholesale supplies

Item 2 (e) – Minimum land dimensions

There are NO minimum land dimensions for the erection of a dwelling house on the land. All applications for the erection of a dwelling house will be assessed in accordance with the Environmental Planning and Assessment Act, 1979.

Item 2 (f) – Critical habitat

The land DOES NOT include or comprise critical habitat.

Item 2 (g) – Conservation Area

The land IS NOT within a heritage conservation area referred to in Schedule 5 of Marrickville Local Environmental Plan 2011

Item 2 (h) – Heritage Item

An item of environmental heritage IS NOT situated on the land under Marrickville Local Environmental Plan 2011

ITEM 2A

Zoning and land use under State Environmental Planning Policy (Sydney Region Growth Centres) 2006

To the extent that the land is within any zone (however described) under:

(a) Part 3 of the *State Environmental Planning Policy (Sydney Region Growth Centres) 2006* (**the 2006 SEPP**), or

(b) a Precinct Plan (within the meaning of the 2006 SEPP), or

(c) a proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act,

the particulars referred to in clause 2 (a)–(h) in relation to that land (with a reference to "the instrument" in any of those paragraphs being read as a reference to Part 3 of the 2006 SEPP, or the Precinct Plan or proposed Precinct Plan, as the case requires).

The land IS NOT land to which State Environmental Planning Policy (Sydney Region Growth Centres) 2006 applies.

ITEM 3

Complying development

(1) The extent to which the land is land on which complying development may be carried out under each of the codes for complying development because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.*

(2) The extent to which complying development may not be carried out on that land because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of that Policy and the reasons why it may not be carried out under those clauses.

(3) If the council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land, a statement that a restriction applies to the land, but it may not apply to all of the land, and that council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land.

Please note: The following land-based affectations may affect only part of the land parcel: ANEF25+, Acid Sulfate Soils, Heritage Item (Local and State), Heritage Conservation Area, Heritage Interim Order, Foreshore Building Line and Land Reserved for Acquisition. Please check the planning maps to determine the extent of the affectation(s) to establish if Complying Development is allowed on part of the land parcel.

General Housing Code

No. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may not be carried out on this land.

The land is excluded land identified as being less than 200sqm in area

Commercial and Industrial (New Buildings and Additions) Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Housing Alterations Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

General Development Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Commercial and Industrial Alterations Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Subdivisions Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Demolition Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Fire Safety Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

ITEM 4

Coastal protection

Whether or not the land is affected by the operation of section 38 or 39 of the *Coastal Protection Act 1979*, but only to the extent that the council has been so notified by the Department of Services, Technology and Administration.

No.

ITEM 4A

Certain information relating to beaches and coasts

(1) In relation to a coastal council – whether an order has been made under Part 4D of the *Coastal Protection Act 1979* in relation to temporary coastal protection works (within the meaning of that Act) on the land (or on public land adjacent to that land), except where the council is satisfied that such an order has been fully complied with.

NO order has been made under Part 4D of the *Coastal Protection Act 1979.*

(2) In relation to a coastal council:

(a) whether the council has been notified under section 55X of the *Coastal Protection Act 1979* that temporary coastal protection works (within the meaning of that Act) have been placed on the land (or on public land adjacent to that land), and

Council HAS NOT been notified under Section 55X of the *Coastal Protection Act 1979.*

(b)	if works have been so placed – whether the council is satisfied that the works have been removed and the land restored in accordance with that Act.

Not Applicable

ITEM 4B

Annual charges under Local Government Act 1993 for coastal protection services that relate to the existing coastal protection works

In relation to a coastal council – whether the owner (or any previous owner) of the land has consented in writing to the land being subject to annual charges under section 496B of the *Local Government Act 1993* for coastal protection services that relate to existing coastal protection works (within the meaning of section 553B of that Act).

The land IS NOT subject to any annual charges under Section 496B of the *Local Government Act 1993.*

ITEM 5

Mine subsidence

Whether or not the land is proclaimed to be a mine subsidence district within the meaning of section 15 of the *Mine Subsidence Compensation Act 1961.*

No.

ITEM 6

Road widening and road realignment

Whether or not the land is affected by any road widening or road realignment under:
(a) Division 2 of Part 3 of the Roads Act 1993, or
(b) any environmental planning instrument, or
(c) any resolution of the council.

The land IS NOT affected by a road widening or road realignment under:
(i) Part 3 Division 2 of the Roads Act 1993
(ii) any environmental planning instrument; or
(iii) any resolution of the Council

ITEM 7

Council and other public authority policies on hazard risk restrictions

> Whether or not the land is affected by a policy:
> (a) adopted by the council, or
> (b) adopted by any other public authority and notified to the council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the council,
>
> that restricts the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulphate soils or any other risk (other than flooding).

- Council HAS adopted by resolution and in accordance with S.72 of the Environmental Planning & Assessment Act, 1979 a development control plan incorporating Council's policy on contaminated land. The Plan has been prepared substantially in accordance with State Environmental Planning Policy No. 55, and the Contaminated Land Planning Guidelines. This policy may affect development of land:

  (a) which is affected by contamination;
  (b) which has been used for certain purposes;
  (c) in respect of which there is not sufficient information about contamination;
  (d) which is proposed to be used for certain purposes;
  (e) in other circumstances contained in the development control plan and policy;

  and in some cases may restrict the development of land.

- Council HAS NOT by resolution (aside from the matters raised in the above item(s)) adopted a policy to restrict the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulfate soils or any other risk (other than flooding).

- Council HAS received no notification of the type described in item 7(b) from a public authority of a policy adopted by that authority that restricts the development of the land because of land slip, bushfire, tidal inundation, subsidence, acid sulfate soils or any other risk (other than flooding).

ITEM 7A

Flood related development controls information

> (1) Whether or not development on that land or part of the land for the purposes of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings (not including development for the purposes of group homes or seniors housing) is subject to flood related development controls.

Yes. Land is identified as flood-affected according to the draft Hawthorne Canal Flood Study, prepared for Council in 2015.

> (2) Whether or not development on that land or part of the land for any other purpose is subject to flood related development controls.

Yes. Land is identified as flood-affected according to the draft Hawthorne Canal Flood Study, prepared for Council in 2015.

> (3) Words and expressions in this clause have the same meaning as in the instrument set out in the Schedule to the *Standard Instrument (Local Environmental Plan) Order 2006.*

ITEM 8

Land reserved for acquisition

Whether or not any environmental planning instrument or proposed environmental planning instrument referred to in clause 1 makes provision in relation to the acquisition of the land by a public authority, as referred to in section 27 of the Act.

The land IS NOT reserved, in part or whole, for acquisition by a public authority, as referred to in section 27 of the Act, under:

(i) any environmental planning instrument
(ii) deemed environmental planning instrument; or
(iii) draft environmental planning instrument

ITEM 9

Contributions plans

The name of each contributions plan applying to the land.

- Marrickville Section 94/94A Contributions Plan 2004.
- Marrickville Section 94/94A Contributions Plan 2014.

ITEM 9A

Biodiversity certified land

If the land is biodiversity certified land (within the meaning of *Part 7AA of the Threatened Species Conservation Act 1995*) a statement to that effect.

The land IS NOT biodiversity certified land (within the meaning of Part 7AA of the Threatened Species Conservation Act 1995).

ITEM 10

Biobanking agreements

If the land is land to which a biobanking agreement under *Part 7A of the Threatened Species Conservation Act 1995* relates, a statement to that effect (but only if the council has been notified of the existence of the agreement by the Director-General of the Department of Environment, Climate Change and Water).

The land IS NOT land to which a biobanking agreement under Part 7A of the Threatened Species Conservation Act 1995 relates.

ITEM 11

Bush fire prone land

If any of the land is bush fire prone land (as defined in the Act), a statement that all or, as the case may be, some of the land is bush fire prone land.

If none of the land is bush fire prone land, a statement to that effect.

The land IS NOT bush fire prone land.

ITEM 12

Property vegetation plans

If the land is land to which a property vegetation plan under the *Native Vegetation Act 2003* applies, a statement to that effect (but only if the council has been notified of the existence of the plan by the person or body that approved the plan under that Act).

No.

ITEM 13

Orders under Trees (Disputes Between Neighbours) Act 2006

Whether an order has been made under the *Trees (Disputes Between Neighbours) Act 2006* to carry out work in relation to a tree on the land (but only if the council has been notified of the order).

No.

ITEM 14

Directions under Part 3A

If there is a direction by the Minister in force under section 75P (2) (c1) of the Act that a provision of an environmental planning instrument prohibiting or restricting the carrying out of a project or a stage of a project on the land under Part 4 of the Act does not have effect, a statement to that effect identifying the provision that does not have effect.

No.

ITEM 15

Site compatibility certificates and conditions for seniors housing

If the land is land to which *State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004* applies:

(a) a statement of whether there is a current site compatibility certificate (seniors housing), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
   (i) the period for which the certificate is current, and
   (ii) that a copy may be obtained from the head office of the Department of Planning, and

(b) a statement setting out any terms of a kind referred to in clause 18 (2) of that Policy that have been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land.

Item 15(a)

There IS NOT a current site compatibility certificate (seniors housing) relating to the land

Item 15(b)

There ARE NO applicable terms of a kind referred to in clause 18(2) of that Policy that have been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land

ITEM 16

Site compatibility certificate for Infrastructure

A statement of whether there is a valid site compatibility certificate (infrastructure), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
(a) the period for which the certificate is valid, and
(b) that a copy may be obtained from the head office of the Department of Planning.

There IS NOT a current site compatibility certificate (infrastructure) relating to the land

ITEM 17

Site compatibility certificate and conditions affecting affordable rental housing

(1) A statement of whether there is a current site compatibility certificate (affordable rental housing), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
(a) the period for which the certificate is current, and
(b) that a copy may be obtained from the head office of the Department of Planning.

(2) A statement setting out any terms of a kind referred to in clause 17 (1) or 38 (1) of *State Environmental Planning Policy (Affordable Rental Housing) 2009* that have been imposed as a condition of consent to a development application in respect of the land.

Item 17(1)

There IS NOT a current site compatibility certificate (affordable rental housing) relating to the land

Item 17(2)

There ARE NO applicable terms of a kind referred to in clause 17(1) or 38(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 that have been imposed as a condition of consent to a development application in respect of the land

ITEM 18

Paper subdivision information

(1) The name of any development plan adopted by a relevant authority that applies to the land or that is proposed to be subject to a consent ballot.

Nil.

(2) The date of any subdivision order that applies to the land.

Not applicable.

(3) Words and expressions used in this clause have the same meaning as they have in Part 16C of this Regulation.

Not Applicable.

ITEM 19

Site verification certificates

(1) A statement of whether there is a current site verification certificate, of which council is aware, in respect of the land and, if there is a certificate, the statement is to include:

a) the matter certified by the certificate, and

Note: A site verification certificate sets out the Director-General's opinion as to whether the land concerned is or is not biophysical strategic agricultural land or critical industry cluster land – see Division 3 of Part 4AA of the *State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007.*

b) the date on which the certificate ceases to be current (if any), and
c) that a copy may be obtained from the head office of the Department of Planning and Infrastructure

Not applicable.

ITEM 20

Loose-fill asbestos insulation

If the land includes any residential premises (within the meaning of Division 1A of Part 8 of the *Home Building Act 1989)* that are listed on the register that is required to be maintained under that Division, a statement to that effect.

No.

OTHER ITEMS (i)

Section 23 exemption or Section 24 authorisation

Whether an exemption under Section 23 or an authorisation under section 24 of the *Nation Building and Jobs Plan (State Infrastructure Delivery) Act 2009* No 1 has been issued by the Co-ordinator General in relation to the land.

An exemption under Section 23 or an authorisation under Section 24 of the Nation Building and Jobs Plan (State Infrastructure Delivery) Act 2009 No 1 HAS NOT been issued by the Co-ordinator General in relation to the land.

OTHER ITEMS (ii)

Matters arising under the Contaminated Land Management Act 1997

Section 59(2) of the *Contaminated Land Management Act 1997* prescribes the following additional matters that are to be specified in a planning certificate:
(a) that the land to which the certificate relates is significantly contaminated land within the meaning of that Act - if the land (or part of the land) is significantly contaminated land at the date when the certificate is issued,

No.

(b)	that the land to which the certificate relates is subject to a management order within the meaning of the Act - if it is subject to such an order at the date when the certificate is issued,

No.

(c)	that the land to which the certificate relates is the subject of an approved voluntary management proposal within the meaning of that Act - if it is the subject of such an approved proposal at the date when the certificate is issued,

No.

(d)	that the land to which the certificate relates is subject to an ongoing maintenance order within the meaning of the Act - if it is subject to such an order at the date when the certificate is issued,

No.

(e)	that the land to which the certificate relates is the subject of a site audit statement within the meaning of the Act - if a copy of such a statement has been provided at any time to the local authority issuing the certificate.

No.

Information provided in this planning certificate is in accordance with the matters prescribed under Schedule 4 of the Environmental Planning and Assessment Regulation 2000.

Council draws your attention to Section 149 (6) which states that a Council shall not incur any liability in respect of any advice provided in good faith pursuant to subsection (5).

This is the end of the Certificate as prescribed under section 149(2) of the Environmental Planning and Assessment Act 1979.

Please contact the Planning Services Section for further information about any instruments or affectations referred to in the Certificate.

MARCUS ROWAN
MANAGER, PLANNING SERVICES

INNER WEST COUNCIL

PLANNING CERTIFICATE UNDER SECTION 149 OF THE ENVIRONMENTAL PLANNING & ASSESSMENT ACT, 1979.

APPLICANT
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PROPERTY
474 New Canterbury Road
DULWICH HILL NSW 2203
Lot 1 DP 540366

PROPERTY NO.
18199

REFERENCE

In accordance with the requirements of section 149 of the Environmental Planning and Assessment Act 1979, the following prescribed matters relate to the land at the date of this certificate.

ITEM 1

Names of relevant planning instruments and DCPs

(1)	The name of each environmental planning instrument that applies to the carrying out of development on the land.

1. The following environmental planning instruments apply to the land:

- Marrickville Local Environmental Plan 2011
- deemed S.E.P.P. (Sydney Harbour Catchment) 2005
- S.E.P.P. No. 19 Bushland in Urban Areas
- S.E.P.P. No. 21 Caravan Parks
- S.E.P.P. No. 30 Intensive Agriculture
- S.E.P.P. No. 32 Urban Consolidation (Redevelopment of Urban Land)
- S.E.P.P. No. 33 Hazardous and Offensive Development
- S.E.P.P. No. 50 Canal Estate Development
- S.E.P.P. No. 55 Remediation of Land
- S.E.P.P. No. 62 Sustainable Aquaculture
- S.E.P.P. No. 64 Advertising and Signage
- S.E.P.P. No. 65 Design Quality of Residential Flat Development
- S.E.P.P. (Housing for Seniors or People with a Disability) 2004
- S.E.P.P. (Building Sustainability Index: BASIX) 2004
- S.E.P.P. (Major Development) 2005
- S.E.P.P. (Mining, Petroleum Production and Extractive Industries) 2007
- S.E.P.P. (Miscellaneous Consent Provisions) 2007
- S.E.P.P. (Infrastructure) 2007
- S.E.P.P. (Exempt and Complying Development Codes) 2008

- S.E.P.P. (Affordable Rental Housing) 2009

Any enquiries regarding these State Planning Policies should be directed to the Department of Planning on: ***1300 305 695 or 02 9228 6333.*** *Information can also be obtained from the Department's website at http://www.planning.nsw.gov.au*

(1)	The name of each proposed environmental planning instrument that will apply to the carrying out of development on the land and that is or has been the subject of community consultation or on public exhibition under the Act (unless the Director-General has notified the council that the making of the proposed instrument has been deferred indefinitely or has not been approved).

2. The following proposed environmental planning instruments apply to the land:

- None

(2)	The name of each development control plan that applies to the carrying out of development on the land.

3. The following development controls plan (D.C.P) apply to the land:

- Marrickville Development Control Plan 2011

ITEM 2

Zoning and land use under relevant LEPs

For each environmental planning instrument or proposed instrument referred to in clause 1 (other than a SEPP or proposed SEPP) that includes the land in any zone (however described):

(a) the identity of the zone, whether by reference to a name (such as "Residential Zone" or Heritage Area") or by reference to a number (such as "Zone No 2 (a)"),

(b) the purposes for which the instrument provides that development may be carried out within the zone without the need for development consent,

(c) the purposes for which the instrument provides that development may not be carried out within the zone except with development consent,

(d) the purposes for which the instrument provides that development is prohibited within the zone,

(e) whether any development standards applying to the land fix minimum land dimensions for the erection of a dwelling-house on the land and, if so, the minimum land dimensions so fixed,

(f) whether the land includes or comprises critical habitat,

(g) whether the land is in a conservation area (however described),

(h) whether an item of environmental heritage (however described) is situated on the land.

Item 2 (a), (b), (c) & (d) – Zoning and Land use table

IN2 - Light Industrial

1 Objectives of zone

•To provide a wide range of light industrial, warehouse and related land uses.

•To encourage employment opportunities and to support the viability of centres.

•To minimise any adverse effect of industry on other land uses.

•To enable other land uses that provide facilities or services to meet the day to day needs of workers in the area.

•To support and protect industrial land for industrial uses.

•To provide business and office premises for the purposes of certain art, technology, production and design sectors.

•To enable a purpose-built dwelling house to be used in certain circumstances as a dwelling house.

2 Permitted without consent

Home occupations

3 Permitted with consent

Depots; Dwelling houses; Garden centres; Hardware and building supplies; Hospitals; Industrial training facilities; Intensive plant agriculture; Kiosks; Landscaping material supplies; Light industries; Markets; Neighbourhood shops; Plant nurseries; Roads; Sewage reticulation systems; Take away food and drink premises; Vehicle sales or hire premises; Warehouse or distribution centres; Any other development not specified in item 2 or 4

4 Prohibited

Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Boat launching ramps; Boat sheds; Camping grounds; Caravan parks; Cemeteries; Charter and tourism boating facilities; Correctional centres; Crematoria; Eco-tourist facilities; Environmental facilities; Exhibition homes; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Function centres; Health services facilities; Heavy industrial storage establishments; Helipads; Highway service centres; Home occupations (sex services); Industries; Information and education facilities; Jetties; Marinas; Mooring pens; Moorings; Open cut mining; Passenger transport facilities; Port facilities; Public administration buildings; Recreation facilities (major); Recreation facilities (outdoor); Research stations; Residential accommodation; Restricted premises; Retail premises; Rural industries; Sewerage systems; Tourist and visitor accommodation; Vehicle body repair workshops; Waste or resource management facilities; Water recreation structures; Water supply systems; Wholesale supplies

Item 2 (e) – Minimum land dimensions

There are NO minimum land dimensions for the erection of a dwelling house on the land. All applications for the erection of a dwelling house will be assessed in accordance with the Environmental Planning and Assessment Act, 1979.

Item 2 (f) – Critical habitat

The land DOES NOT include or comprise critical habitat.

Item 2 (g) – Conservation Area

The land IS NOT within a heritage conservation area referred to in Schedule 5 of Marrickville Local Environmental Plan 2011

Item 2 (h) – Heritage Item

An item of environmental heritage IS NOT situated on the land under Marrickville Local Environmental Plan 2011

ITEM 2A

Zoning and land use under State Environmental Planning Policy (Sydney Region Growth Centres) 2006

To the extent that the land is within any zone (however described) under:

(a) Part 3 of the *State Environmental Planning Policy (Sydney Region Growth Centres) 2006* (**the 2006 SEPP**), or

(b) a Precinct Plan (within the meaning of the 2006 SEPP), or

(c) a proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act,

the particulars referred to in clause 2 (a)–(h) in relation to that land (with a reference to "the instrument" in any of those paragraphs being read as a reference to Part 3 of the 2006 SEPP, or the Precinct Plan or proposed Precinct Plan, as the case requires).

The land IS NOT land to which State Environmental Planning Policy (Sydney Region Growth Centres) 2006 applies.

ITEM 3

Complying development

(1) The extent to which the land is land on which complying development may be carried out under each of the codes for complying development because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.*

(2) The extent to which complying development may not be carried out on that land because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of that Policy and the reasons why it may not be carried out under those clauses.

(3) If the council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land, a statement that a restriction applies to the land, but it may not apply to all of the land, and that council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land.

Please note: The following land-based affectations may affect only part of the land parcel: ANEF25+, Acid Sulfate Soils, Heritage Item (Local and State), Heritage Conservation Area, Heritage Interim Order, Foreshore Building Line and Land Reserved for Acquisition. Please check the planning maps to determine the extent of the affectation(s) to establish if Complying Development is allowed on part of the land parcel.

General Housing Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Commercial and Industrial (New Buildings and Additions) Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Housing Alterations Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

General Development Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Commercial and Industrial Alterations Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Subdivisions Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Demolition Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Fire Safety Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

ITEM 4

Coastal protection

Whether or not the land is affected by the operation of section 38 or 39 of the *Coastal Protection Act 1979*, but only to the extent that the council has been so notified by the Department of Services, Technology and Administration.

No.

ITEM 4A

Certain information relating to beaches and coasts

(1) In relation to a coastal council – whether an order has been made under Part 4D of the *Coastal Protection Act 1979* in relation to temporary coastal protection works (within the meaning of that Act) on the land (or on public land adjacent to that land), except where the council is satisfied that such an order has been fully complied with.

NO order has been made under Part 4D of the *Coastal Protection Act 1979.*

(2) In relation to a coastal council:

(a) whether the council has been notified under section 55X of the *Coastal Protection Act 1979* that temporary coastal protection works (within the meaning of that Act) have been placed on the land (or on public land adjacent to that land), and

Council HAS NOT been notified under Section 55X of the *Coastal Protection Act 1979.*

(b) if works have been so placed – whether the council is satisfied that the works have been removed and the land restored in accordance with that Act.

Not Applicable

ITEM 4B

Annual charges under Local Government Act 1993 for coastal protection services that relate to the existing coastal protection works

> In relation to a coastal council – whether the owner (or any previous owner) of the land has consented in writing to the land being subject to annual charges under section 496B of the *Local Government Act 1993* for coastal protection services that relate to existing coastal protection works (within the meaning of section 553B of that Act).

The land IS NOT subject to any annual charges under Section 496B of the *Local Government Act 1993.*

ITEM 5

Mine subsidence

> Whether or not the land is proclaimed to be a mine subsidence district within the meaning of section 15 of the *Mine Subsidence Compensation Act 1961.*

No.

ITEM 6

Road widening and road realignment

> Whether or not the land is affected by any road widening or road realignment under:
> (a) Division 2 of Part 3 of the Roads Act 1993, or
> (b) any environmental planning instrument, or
> (c) any resolution of the council.

The land IS NOT affected by a road widening or road realignment under:
(i) Part 3 Division 2 of the Roads Act 1993
(ii) any environmental planning instrument; or
(iii) any resolution of the Council

ITEM 7

Council and other public authority policies on hazard risk restrictions

> Whether or not the land is affected by a policy:
> (a) adopted by the council, or
> (b) adopted by any other public authority and notified to the council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the council,
>
> that restricts the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulphate soils or any other risk (other than flooding).

- Council HAS adopted by resolution and in accordance with S.72 of the Environmental Planning & Assessment Act, 1979 a development control plan incorporating Council's policy on contaminated land. The Plan has been prepared substantially in accordance with State Environmental Planning Policy No. 55, and the Contaminated Land Planning Guidelines. This policy may affect development of land:

  (a) which is affected by contamination;
  (b) which has been used for certain purposes;
  (c) in respect of which there is not sufficient information about contamination;
  (d) which is proposed to be used for certain purposes;

(e) in other circumstances contained in the development control plan and policy;

and in some cases may restrict the development of land.

- Council HAS NOT by resolution (aside from the matters raised in the above item(s)) adopted a policy to restrict the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulfate soils or any other risk (other than flooding).

- Council HAS received no notification of the type described in item 7(b) from a public authority of a policy adopted by that authority that restricts the development of the land because of land slip, bushfire, tidal inundation, subsidence, acid sulfate soils or any other risk (other than flooding).

ITEM 7A

Flood related development controls information

(1)	Whether or not development on that land or part of the land for the purposes of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings (not including development for the purposes of group homes or seniors housing) is subject to flood related development controls.

Yes. Land is identified as flood-affected according to the draft Hawthorne Canal Flood Study, prepared for Council in 2015.

(2)	Whether or not development on that land or part of the land for any other purpose is subject to flood related development controls.

Yes. Land is identified as flood-affected according to the draft Hawthorne Canal Flood Study, prepared for Council in 2015.

(3)	Words and expressions in this clause have the same meaning as in the instrument set out in the Schedule to the *Standard Instrument (Local Environmental Plan) Order 2006.*

ITEM 8

Land reserved for acquisition

Whether or not any environmental planning instrument or proposed environmental planning instrument referred to in clause 1 makes provision in relation to the acquisition of the land by a public authority, as referred to in section 27 of the Act.

The land IS NOT reserved, in part or whole, for acquisition by a public authority, as referred to in section 27 of the Act, under:

(i) any environmental planning instrument
(ii) deemed environmental planning instrument; or
(iii) draft environmental planning instrument

ITEM 9

Contributions plans

The name of each contributions plan applying to the land.

- Marrickville Section 94/94A Contributions Plan 2004.
- Marrickville Section 94/94A Contributions Plan 2014.

ITEM 9A

Biodiversity certified land

If the land is biodiversity certified land (within the meaning of *Part 7AA of the Threatened Species Conservation Act 1995*) a statement to that effect.

The land IS NOT biodiversity certified land (within the meaning of Part 7AA of the Threatened Species Conservation Act 1995).

ITEM 10

Biobanking agreements

If the land is land to which a biobanking agreement under *Part 7A of the Threatened Species Conservation Act 1995* relates, a statement to that effect (but only if the council has been notified of the existence of the agreement by the Director-General of the Department of Environment, Climate Change and Water).

The land IS NOT land to which a biobanking agreement under Part 7A of the Threatened Species Conservation Act 1995 relates.

ITEM 11

Bush fire prone land

If any of the land is bush fire prone land (as defined in the Act), a statement that all or, as the case may be, some of the land is bush fire prone land.

If none of the land is bush fire prone land, a statement to that effect.

The land IS NOT bush fire prone land.

ITEM 12

Property vegetation plans

If the land is land to which a property vegetation plan under the *Native Vegetation Act 2003* applies, a statement to that effect (but only if the council has been notified of the existence of the plan by the person or body that approved the plan under that Act).

No.

ITEM 13

Orders under Trees (Disputes Between Neighbours) Act 2006

Whether an order has been made under the *Trees (Disputes Between Neighbours) Act 2006* to carry out work in relation to a tree on the land (but only if the council has been notified of the order).

No.

ITEM 14

Directions under Part 3A

If there is a direction by the Minister in force under section 75P (2) (c1) of the Act that a provision of an environmental planning instrument prohibiting or restricting the carrying out of a project or a stage of a project on the land under Part 4 of the Act does not have effect, a statement to that effect identifying the provision that does not have effect.

No.

ITEM 15

Site compatibility certificates and conditions for seniors housing

If the land is land to which *State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004* applies:

(a) a statement of whether there is a current site compatibility certificate (seniors housing), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
   (i) the period for which the certificate is current, and
   (ii) that a copy may be obtained from the head office of the Department of Planning, and

(b) a statement setting out any terms of a kind referred to in clause 18 (2) of that Policy that have been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land.

Item 15(a)

There IS NOT a current site compatibility certificate (seniors housing) relating to the land

Item 15(b)

There ARE NO applicable terms of a kind referred to in clause 18(2) of that Policy that have been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land

ITEM 16

Site compatibility certificate for Infrastructure

A statement of whether there is a valid site compatibility certificate (infrastructure), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
(a) the period for which the certificate is valid, and
(b) that a copy may be obtained from the head office of the Department of Planning.

There IS NOT a current site compatibility certificate (infrastructure) relating to the land

ITEM 17

Site compatibility certificate and conditions affecting affordable rental housing

(1) A statement of whether there is a current site compatibility certificate (affordable rental housing), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
(a) the period for which the certificate is current, and
(b) that a copy may be obtained from the head office of the Department of Planning.

(2) A statement setting out any terms of a kind referred to in clause 17 (1) or 38 (1) of *State Environmental Planning Policy (Affordable Rental Housing) 2009* that have been imposed as a condition of consent to a development application in respect of the land.

Item 17(1)

There IS NOT a current site compatibility certificate (affordable rental housing) relating to the land

Item 17(2)

There ARE NO applicable terms of a kind referred to in clause 17(1) or 38(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 that have been imposed as a condition of consent to a development application in respect of the land

ITEM 18

Paper subdivision information

(1) The name of any development plan adopted by a relevant authority that applies to the land or that is proposed to be subject to a consent ballot.

Nil.

(2) The date of any subdivision order that applies to the land.

Not applicable.

(3) Words and expressions used in this clause have the same meaning as they have in Part 16C of this Regulation.

Not Applicable.

ITEM 19

Site verification certificates

(1) A statement of whether there is a current site verification certificate, of which council is aware, in respect of the land and, if there is a certificate, the statement is to include:

a) the matter certified by the certificate, and

Note: A site verification certificate sets out the Director-General's opinion as to whether the land concerned is or is not biophysical strategic agricultural land or critical industry cluster land – see Division 3 of Part 4AA of the *State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007.*

b) the date on which the certificate ceases to be current (if any), and
c) that a copy may be obtained from the head office of the Department of Planning and Infrastructure

Not applicable.

ITEM 20

Loose-fill asbestos insulation

If the land includes any residential premises (within the meaning of Division 1A of Part 8 of the *Home Building Act 1989)* that are listed on the register that is required to be maintained under that Division, a statement to that effect.

No.

OTHER ITEMS (i)

Section 23 exemption or Section 24 authorisation

Whether an exemption under Section 23 or an authorisation under section 24 of the *Nation Building and Jobs Plan (State Infrastructure Delivery) Act 2009* No 1 has been issued by the Co-ordinator General in relation to the land.

An exemption under Section 23 or an authorisation under Section 24 of the Nation Building and Jobs Plan (State Infrastructure Delivery) Act 2009 No 1 HAS NOT been issued by the Co-ordinator General in relation to the land.

OTHER ITEMS (ii)

Matters arising under the Contaminated Land Management Act 1997

Section 59(2) of the *Contaminated Land Management Act 1997* prescribes the following additional matters that are to be specified in a planning certificate:
(a) that the land to which the certificate relates is significantly contaminated land within the meaning of that Act - if the land (or part of the land) is significantly contaminated land at the date when the certificate is issued,

No.

(b)	that the land to which the certificate relates is subject to a management order within the meaning of the Act - if it is subject to such an order at the date when the certificate is issued,

No.

(c)	that the land to which the certificate relates is the subject of an approved voluntary management proposal within the meaning of that Act - if it is the subject of such an approved proposal at the date when the certificate is issued,

No.

(d)	that the land to which the certificate relates is subject to an ongoing maintenance order within the meaning of the Act - if it is subject to such an order at the date when the certificate is issued,

No.

(e)	that the land to which the certificate relates is the subject of a site audit statement within the meaning of the Act - if a copy of such a statement has been provided at any time to the local authority issuing the certificate.

No.

Information provided in this planning certificate is in accordance with the matters prescribed under Schedule 4 of the Environmental Planning and Assessment Regulation 2000.

Council draws your attention to Section 149 (6) which states that a Council shall not incur any liability in respect of any advice provided in good faith pursuant to subsection (5).

This is the end of the Certificate as prescribed under section 149(2) of the Environmental Planning and Assessment Act 1979.

Please contact the Planning Services Section for further information about any instruments or affectations referred to in the Certificate.

MARCUS ROWAN
MANAGER, PLANNING SERVICES

INNER WEST COUNCIL

PLANNING CERTIFICATE UNDER SECTION 149 OF THE ENVIRONMENTAL PLANNING & ASSESSMENT ACT, 1979.

APPLICANT
S GLOBAL
Po Box 447
Southbank VIC 3205
epropertysupport@saiglobal.com

PROPERTY
476 New Canterbury Road
DULWICH HILL NSW 2203
Lot 3 DP 236603

PROPERTY NO.
18200

REFERENCE

In accordance with the requirements of section 149 of the Environmental Planning and Assessment Act 1979, the following prescribed matters relate to the land at the date of this certificate.

ITEM 1

Names of relevant planning instruments and DCPs

(1)	The name of each environmental planning instrument that applies to the carrying out of development on the land.

1. The following environmental planning instruments apply to the land:

- Marrickville Local Environmental Plan 2011
- deemed S.E.P.P. (Sydney Harbour Catchment) 2005
- S.E.P.P. No. 19 Bushland in Urban Areas
- S.E.P.P. No. 21 Caravan Parks
- S.E.P.P. No. 30 Intensive Agriculture
- S.E.P.P. No. 32 Urban Consolidation (Redevelopment of Urban Land)
- S.E.P.P. No. 33 Hazardous and Offensive Development
- S.E.P.P. No. 50 Canal Estate Development
- S.E.P.P. No. 55 Remediation of Land
- S.E.P.P. No. 62 Sustainable Aquaculture
- S.E.P.P. No. 64 Advertising and Signage
- S.E.P.P. No. 65 Design Quality of Residential Flat Development
- S.E.P.P. (Housing for Seniors or People with a Disability) 2004
- S.E.P.P. (Building Sustainability Index: BASIX) 2004
- S.E.P.P. (Major Development) 2005
- S.E.P.P. (Mining, Petroleum Production and Extractive Industries) 2007
- S.E.P.P. (Miscellaneous Consent Provisions) 2007
- S.E.P.P. (Infrastructure) 2007
- S.E.P.P. (Exempt and Complying Development Codes) 2008

- S.E.P.P. (Affordable Rental Housing) 2009

Any enquiries regarding these State Planning Policies should be directed to the Department of Planning on: ***1300 305 695 or 02 9228 6333.*** *Information can also be obtained from the Department's website at http://www.planning.nsw.gov.au*

(1)	The name of each proposed environmental planning instrument that will apply to the carrying out of development on the land and that is or has been the subject of community consultation or on public exhibition under the Act (unless the Director-General has notified the council that the making of the proposed instrument has been deferred indefinitely or has not been approved).

2. The following proposed environmental planning instruments apply to the land:

- None

(2)	The name of each development control plan that applies to the carrying out of development on the land.

3. The following development controls plan (D.C.P) apply to the land:

- Marrickville Development Control Plan 2011

ITEM 2

Zoning and land use under relevant LEPs

For each environmental planning instrument or proposed instrument referred to in clause 1 (other than a SEPP or proposed SEPP) that includes the land in any zone (however described):

(a) the identity of the zone, whether by reference to a name (such as "Residential Zone" or Heritage Area") or by reference to a number (such as "Zone No 2 (a)"),

(b) the purposes for which the instrument provides that development may be carried out within the zone without the need for development consent,

(c) the purposes for which the instrument provides that development may not be carried out within the zone except with development consent,

(d) the purposes for which the instrument provides that development is prohibited within the zone,

(e) whether any development standards applying to the land fix minimum land dimensions for the erection of a dwelling-house on the land and, if so, the minimum land dimensions so fixed,

(f) whether the land includes or comprises critical habitat,

(g) whether the land is in a conservation area (however described),

(h) whether an item of environmental heritage (however described) is situated on the land.

Item 2 (a), (b), (c) & (d) – Zoning and Land use table

IN2 - Light Industrial

1 Objectives of zone

•To provide a wide range of light industrial, warehouse and related land uses.

•To encourage employment opportunities and to support the viability of centres.

•To minimise any adverse effect of industry on other land uses.

•To enable other land uses that provide facilities or services to meet the day to day needs of workers in the area.

•To support and protect industrial land for industrial uses.

•To provide business and office premises for the purposes of certain art, technology, production and design sectors.

•To enable a purpose-built dwelling house to be used in certain circumstances as a dwelling house.

2 Permitted without consent

Home occupations

3 Permitted with consent

Depots; Dwelling houses; Garden centres; Hardware and building supplies; Hospitals; Industrial training facilities; Intensive plant agriculture; Kiosks; Landscaping material supplies; Light industries; Markets; Neighbourhood shops; Plant nurseries; Roads; Sewage reticulation systems; Take away food and drink premises; Vehicle sales or hire premises; Warehouse or distribution centres; Any other development not specified in item 2 or 4

4 Prohibited

Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Boat launching ramps; Boat sheds; Camping grounds; Caravan parks; Cemeteries; Charter and tourism boating facilities; Correctional centres; Crematoria; Eco-tourist facilities; Environmental facilities; Exhibition homes; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Function centres; Health services facilities; Heavy industrial storage establishments; Helipads; Highway service centres; Home occupations (sex services); Industries; Information and education facilities; Jetties; Marinas; Mooring pens; Moorings; Open cut mining; Passenger transport facilities; Port facilities; Public administration buildings; Recreation facilities (major); Recreation facilities (outdoor); Research stations; Residential accommodation; Restricted premises; Retail premises; Rural industries; Sewerage systems; Tourist and visitor accommodation; Vehicle body repair workshops; Waste or resource management facilities; Water recreation structures; Water supply systems; Wholesale supplies

Item 2 (e) – Minimum land dimensions

There are NO minimum land dimensions for the erection of a dwelling house on the land. All applications for the erection of a dwelling house will be assessed in accordance with the Environmental Planning and Assessment Act, 1979.

Item 2 (f) – Critical habitat

The land DOES NOT include or comprise critical habitat.

Item 2 (g) – Conservation Area

The land IS NOT within a heritage conservation area referred to in Schedule 5 of Marrickville Local Environmental Plan 2011

Item 2 (h) – Heritage Item

An item of environmental heritage IS NOT situated on the land under Marrickville Local Environmental Plan 2011

ITEM 2A

Zoning and land use under State Environmental Planning Policy (Sydney Region Growth Centres) 2006

To the extent that the land is within any zone (however described) under:

(a) Part 3 of the *State Environmental Planning Policy (Sydney Region Growth Centres) 2006* (**the 2006 SEPP**), or

(b) a Precinct Plan (within the meaning of the 2006 SEPP), or

(c) a proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act,

the particulars referred to in clause 2 (a)–(h) in relation to that land (with a reference to "the instrument" in any of those paragraphs being read as a reference to Part 3 of the 2006 SEPP, or the Precinct Plan or proposed Precinct Plan, as the case requires).

The land IS NOT land to which State Environmental Planning Policy (Sydney Region Growth Centres) 2006 applies.

ITEM 3

Complying development

(1) The extent to which the land is land on which complying development may be carried out under each of the codes for complying development because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.*

(2) The extent to which complying development may not be carried out on that land because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of that Policy and the reasons why it may not be carried out under those clauses.

(3) If the council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land, a statement that a restriction applies to the land, but it may not apply to all of the land, and that council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land.

Please note: The following land-based affectations may affect only part of the land parcel: ANEF25+, Acid Sulfate Soils, Heritage Item (Local and State), Heritage Conservation Area, Heritage Interim Order, Foreshore Building Line and Land Reserved for Acquisition. Please check the planning maps to determine the extent of the affectation(s) to establish if Complying Development is allowed on part of the land parcel.

General Housing Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Commercial and Industrial (New Buildings and Additions) Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Housing Alterations Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

General Development Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Commercial and Industrial Alterations Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Subdivisions Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Demolition Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Fire Safety Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

ITEM 4

Coastal protection

Whether or not the land is affected by the operation of section 38 or 39 of the *Coastal Protection Act 1979*, but only to the extent that the council has been so notified by the Department of Services, Technology and Administration.

No.

ITEM 4A

Certain information relating to beaches and coasts

(1) In relation to a coastal council – whether an order has been made under Part 4D of the *Coastal Protection Act 1979* in relation to temporary coastal protection works (within the meaning of that Act) on the land (or on public land adjacent to that land), except where the council is satisfied that such an order has been fully complied with.

NO order has been made under Part 4D of the *Coastal Protection Act 1979.*

(2) In relation to a coastal council:

(a) whether the council has been notified under section 55X of the *Coastal Protection Act 1979* that temporary coastal protection works (within the meaning of that Act) have been placed on the land (or on public land adjacent to that land), and

Council HAS NOT been notified under Section 55X of the *Coastal Protection Act 1979.*

(b) if works have been so placed – whether the council is satisfied that the works have been removed and the land restored in accordance with that Act.

Not Applicable

ITEM 4B

Annual charges under Local Government Act 1993 for coastal protection services that relate to the existing coastal protection works

> In relation to a coastal council – whether the owner (or any previous owner) of the land has consented in writing to the land being subject to annual charges under section 496B of the *Local Government Act 1993* for coastal protection services that relate to existing coastal protection works (within the meaning of section 553B of that Act).

The land IS NOT subject to any annual charges under Section 496B of the *Local Government Act 1993.*

ITEM 5

Mine subsidence

> Whether or not the land is proclaimed to be a mine subsidence district within the meaning of section 15 of the *Mine Subsidence Compensation Act 1961.*

No.

ITEM 6

Road widening and road realignment

> Whether or not the land is affected by any road widening or road realignment under:
> (a) Division 2 of Part 3 of the Roads Act 1993, or
> (b) any environmental planning instrument, or
> (c) any resolution of the council.

The land IS NOT affected by a road widening or road realignment under:
(i) Part 3 Division 2 of the Roads Act 1993
(ii) any environmental planning instrument; or
(iii) any resolution of the Council

ITEM 7

Council and other public authority policies on hazard risk restrictions

> Whether or not the land is affected by a policy:
> (a) adopted by the council, or
> (b) adopted by any other public authority and notified to the council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the council,
>
> that restricts the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulphate soils or any other risk (other than flooding).

- Council HAS adopted by resolution and in accordance with S.72 of the Environmental Planning & Assessment Act, 1979 a development control plan incorporating Council's policy on contaminated land. The Plan has been prepared substantially in accordance with State Environmental Planning Policy No. 55, and the Contaminated Land Planning Guidelines. This policy may affect development of land:

  (a) which is affected by contamination;
  (b) which has been used for certain purposes;
  (c) in respect of which there is not sufficient information about contamination;
  (d) which is proposed to be used for certain purposes;

(e) in other circumstances contained in the development control plan and policy;

and in some cases may restrict the development of land.

- Council HAS NOT by resolution (aside from the matters raised in the above item(s)) adopted a policy to restrict the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulfate soils or any other risk (other than flooding).

- Council HAS received no notification of the type described in item 7(b) from a public authority of a policy adopted by that authority that restricts the development of the land because of land slip, bushfire, tidal inundation, subsidence, acid sulfate soils or any other risk (other than flooding).

ITEM 7A

Flood related development controls information

(1)	Whether or not development on that land or part of the land for the purposes of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings (not including development for the purposes of group homes or seniors housing) is subject to flood related development controls.

Yes. Land is identified as flood-affected according to the draft Hawthorne Canal Flood Study, prepared for Council in 2015.

(2)	Whether or not development on that land or part of the land for any other purpose is subject to flood related development controls.

Yes. Land is identified as flood-affected according to the draft Hawthorne Canal Flood Study, prepared for Council in 2015.

(3)	Words and expressions in this clause have the same meaning as in the instrument set out in the Schedule to the *Standard Instrument (Local Environmental Plan) Order 2006.*

ITEM 8

Land reserved for acquisition

Whether or not any environmental planning instrument or proposed environmental planning instrument referred to in clause 1 makes provision in relation to the acquisition of the land by a public authority, as referred to in section 27 of the Act.

The land IS NOT reserved, in part or whole, for acquisition by a public authority, as referred to in section 27 of the Act, under:

(i) any environmental planning instrument
(ii) deemed environmental planning instrument; or
(iii) draft environmental planning instrument

ITEM 9

Contributions plans

The name of each contributions plan applying to the land.

- Marrickville Section 94/94A Contributions Plan 2004.
- Marrickville Section 94/94A Contributions Plan 2014.

ITEM 9A

Biodiversity certified land

If the land is biodiversity certified land (within the meaning of *Part 7AA of the Threatened Species Conservation Act 1995*) a statement to that effect.

The land IS NOT biodiversity certified land (within the meaning of Part 7AA of the Threatened Species Conservation Act 1995).

ITEM 10

Biobanking agreements

If the land is land to which a biobanking agreement under *Part 7A of the Threatened Species Conservation Act 1995* relates, a statement to that effect (but only if the council has been notified of the existence of the agreement by the Director-General of the Department of Environment, Climate Change and Water).

The land IS NOT land to which a biobanking agreement under Part 7A of the Threatened Species Conservation Act 1995 relates.

ITEM 11

Bush fire prone land

If any of the land is bush fire prone land (as defined in the Act), a statement that all or, as the case may be, some of the land is bush fire prone land.

If none of the land is bush fire prone land, a statement to that effect.

The land IS NOT bush fire prone land.

ITEM 12

Property vegetation plans

If the land is land to which a property vegetation plan under the *Native Vegetation Act 2003* applies, a statement to that effect (but only if the council has been notified of the existence of the plan by the person or body that approved the plan under that Act).

No.

ITEM 13

Orders under Trees (Disputes Between Neighbours) Act 2006

Whether an order has been made under the *Trees (Disputes Between Neighbours) Act 2006* to carry out work in relation to a tree on the land (but only if the council has been notified of the order).

No.

ITEM 14

Directions under Part 3A

If there is a direction by the Minister in force under section 75P (2) (c1) of the Act that a provision of an environmental planning instrument prohibiting or restricting the carrying out of a project or a stage of a project on the land under Part 4 of the Act does not have effect, a statement to that effect identifying the provision that does not have effect.

No.

ITEM 15

Site compatibility certificates and conditions for seniors housing

If the land is land to which *State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004* applies:

(a) a statement of whether there is a current site compatibility certificate (seniors housing), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
   (i) the period for which the certificate is current, and
   (ii) that a copy may be obtained from the head office of the Department of Planning, and

(b) a statement setting out any terms of a kind referred to in clause 18 (2) of that Policy that have been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land.

Item 15(a)

There IS NOT a current site compatibility certificate (seniors housing) relating to the land

Item 15(b)

There ARE NO applicable terms of a kind referred to in clause 18(2) of that Policy that have been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land

ITEM 16

Site compatibility certificate for Infrastructure

A statement of whether there is a valid site compatibility certificate (infrastructure), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
(a) the period for which the certificate is valid, and
(b) that a copy may be obtained from the head office of the Department of Planning.

There IS NOT a current site compatibility certificate (infrastructure) relating to the land

ITEM 17

Site compatibility certificate and conditions affecting affordable rental housing

(1) A statement of whether there is a current site compatibility certificate (affordable rental housing), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
(a) the period for which the certificate is current, and
(b) that a copy may be obtained from the head office of the Department of Planning.

(2) A statement setting out any terms of a kind referred to in clause 17 (1) or 38 (1) of *State Environmental Planning Policy (Affordable Rental Housing) 2009* that have been imposed as a condition of consent to a development application in respect of the land.

Item 17(1)

There IS NOT a current site compatibility certificate (affordable rental housing) relating to the land

Item 17(2)

There ARE NO applicable terms of a kind referred to in clause 17(1) or 38(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 that have been imposed as a condition of consent to a development application in respect of the land

ITEM 18

Paper subdivision information

(1) The name of any development plan adopted by a relevant authority that applies to the land or that is proposed to be subject to a consent ballot.

Nil.

(2) The date of any subdivision order that applies to the land.

Not applicable.

(3) Words and expressions used in this clause have the same meaning as they have in Part 16C of this Regulation.

Not Applicable.

ITEM 19

Site verification certificates

(1) A statement of whether there is a current site verification certificate, of which council is aware, in respect of the land and, if there is a certificate, the statement is to include:

a) the matter certified by the certificate, and

Note: A site verification certificate sets out the Director-General's opinion as to whether the land concerned is or is not biophysical strategic agricultural land or critical industry cluster land – see Division 3 of Part 4AA of the *State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007.*

b) the date on which the certificate ceases to be current (if any), and
c) that a copy may be obtained from the head office of the Department of Planning and Infrastructure

Not applicable.

ITEM 20

Loose-fill asbestos insulation

If the land includes any residential premises (within the meaning of Division 1A of Part 8 of the *Home Building Act 1989)* that are listed on the register that is required to be maintained under that Division, a statement to that effect.

No.

OTHER ITEMS (i)

Section 23 exemption or Section 24 authorisation

Whether an exemption under Section 23 or an authorisation under section 24 of the *Nation Building and Jobs Plan (State Infrastructure Delivery) Act 2009* No 1 has been issued by the Co-ordinator General in relation to the land.

An exemption under Section 23 or an authorisation under Section 24 of the Nation Building and Jobs Plan (State Infrastructure Delivery) Act 2009 No 1 HAS NOT been issued by the Co-ordinator General in relation to the land.

OTHER ITEMS (ii)

Matters arising under the Contaminated Land Management Act 1997

Section 59(2) of the *Contaminated Land Management Act 1997* prescribes the following additional matters that are to be specified in a planning certificate:
(a) that the land to which the certificate relates is significantly contaminated land within the meaning of that Act - if the land (or part of the land) is significantly contaminated land at the date when the certificate is issued,

No.

(b)	that the land to which the certificate relates is subject to a management order within the meaning of the Act - if it is subject to such an order at the date when the certificate is issued,

No.

(c)	that the land to which the certificate relates is the subject of an approved voluntary management proposal within the meaning of that Act - if it is the subject of such an approved proposal at the date when the certificate is issued,

No.

(d)	that the land to which the certificate relates is subject to an ongoing maintenance order within the meaning of the Act - if it is subject to such an order at the date when the certificate is issued,

No.

(e)	that the land to which the certificate relates is the subject of a site audit statement within the meaning of the Act - if a copy of such a statement has been provided at any time to the local authority issuing the certificate.

No.

Information provided in this planning certificate is in accordance with the matters prescribed under Schedule 4 of the Environmental Planning and Assessment Regulation 2000.

Council draws your attention to Section 149 (6) which states that a Council shall not incur any liability in respect of any advice provided in good faith pursuant to subsection (5).

This is the end of the Certificate as prescribed under section 149(2) of the Environmental Planning and Assessment Act 1979.

Please contact the Planning Services Section for further information about any instruments or affectations referred to in the Certificate.

MARCUS ROWAN
MANAGER, PLANNING SERVICES

INNER WEST COUNCIL

PLANNING CERTIFICATE UNDER SECTION 149 OF THE ENVIRONMENTAL PLANNING & ASSESSMENT ACT, 1979.

APPLICANT
S GLOBAL
Po Box 447
Southbank VIC 3205
epropertysupport@saiglobal.com

PROPERTY
478 New Canterbury Road
DULWICH HILL NSW 2203
Lot 2 DP 236603

PROPERTY NO.
18201

REFERENCE

In accordance with the requirements of section 149 of the Environmental Planning and Assessment Act 1979, the following prescribed matters relate to the land at the date of this certificate.

ITEM 1

Names of relevant planning instruments and DCPs

(1)	The name of each environmental planning instrument that applies to the carrying out of development on the land.

1. The following environmental planning instruments apply to the land:

- Marrickville Local Environmental Plan 2011
- deemed S.E.P.P. (Sydney Harbour Catchment) 2005
- S.E.P.P. No. 19 Bushland in Urban Areas
- S.E.P.P. No. 21 Caravan Parks
- S.E.P.P. No. 30 Intensive Agriculture
- S.E.P.P. No. 32 Urban Consolidation (Redevelopment of Urban Land)
- S.E.P.P. No. 33 Hazardous and Offensive Development
- S.E.P.P. No. 50 Canal Estate Development
- S.E.P.P. No. 55 Remediation of Land
- S.E.P.P. No. 62 Sustainable Aquaculture
- S.E.P.P. No. 64 Advertising and Signage
- S.E.P.P. No. 65 Design Quality of Residential Flat Development
- S.E.P.P. (Housing for Seniors or People with a Disability) 2004
- S.E.P.P. (Building Sustainability Index: BASIX) 2004
- S.E.P.P. (Major Development) 2005
- S.E.P.P. (Mining, Petroleum Production and Extractive Industries) 2007
- S.E.P.P. (Miscellaneous Consent Provisions) 2007
- S.E.P.P. (Infrastructure) 2007
- S.E.P.P. (Exempt and Complying Development Codes) 2008

- S.E.P.P. (Affordable Rental Housing) 2009

Any enquiries regarding these State Planning Policies should be directed to the Department of Planning on: ***1300 305 695 or 02 9228 6333.*** *Information can also be obtained from the Department's website at http://www.planning.nsw.gov.au*

(1)	The name of each proposed environmental planning instrument that will apply to the carrying out of development on the land and that is or has been the subject of community consultation or on public exhibition under the Act (unless the Director-General has notified the council that the making of the proposed instrument has been deferred indefinitely or has not been approved).

2. The following proposed environmental planning instruments apply to the land:

- None

(2)	The name of each development control plan that applies to the carrying out of development on the land.

3. The following development controls plan (D.C.P) apply to the land:

- Marrickville Development Control Plan 2011

ITEM 2

Zoning and land use under relevant LEPs

For each environmental planning instrument or proposed instrument referred to in clause 1 (other than a SEPP or proposed SEPP) that includes the land in any zone (however described):

(a) the identity of the zone, whether by reference to a name (such as "Residential Zone" or Heritage Area") or by reference to a number (such as "Zone No 2 (a)"),

(b) the purposes for which the instrument provides that development may be carried out within the zone without the need for development consent,

(c) the purposes for which the instrument provides that development may not be carried out within the zone except with development consent,

(d) the purposes for which the instrument provides that development is prohibited within the zone,

(e) whether any development standards applying to the land fix minimum land dimensions for the erection of a dwelling-house on the land and, if so, the minimum land dimensions so fixed,

(f) whether the land includes or comprises critical habitat,

(g) whether the land is in a conservation area (however described),

(h) whether an item of environmental heritage (however described) is situated on the land.

Item 2 (a), (b), (c) & (d) – Zoning and Land use table

IN2 - Light Industrial

1 Objectives of zone

•To provide a wide range of light industrial, warehouse and related land uses.

•To encourage employment opportunities and to support the viability of centres.

•To minimise any adverse effect of industry on other land uses.

•To enable other land uses that provide facilities or services to meet the day to day needs of workers in the area.

•To support and protect industrial land for industrial uses.

•To provide business and office premises for the purposes of certain art, technology, production and design sectors.

•To enable a purpose-built dwelling house to be used in certain circumstances as a dwelling house.

2 Permitted without consent

Home occupations

3 Permitted with consent

Depots; Dwelling houses; Garden centres; Hardware and building supplies; Hospitals; Industrial training facilities; Intensive plant agriculture; Kiosks; Landscaping material supplies; Light industries; Markets; Neighbourhood shops; Plant nurseries; Roads; Sewage reticulation systems; Take away food and drink premises; Vehicle sales or hire premises; Warehouse or distribution centres; Any other development not specified in item 2 or 4

4 Prohibited

Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Boat launching ramps; Boat sheds; Camping grounds; Caravan parks; Cemeteries; Charter and tourism boating facilities; Correctional centres; Crematoria; Eco-tourist facilities; Environmental facilities; Exhibition homes; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Function centres; Health services facilities; Heavy industrial storage establishments; Helipads; Highway service centres; Home occupations (sex services); Industries; Information and education facilities; Jetties; Marinas; Mooring pens; Moorings; Open cut mining; Passenger transport facilities; Port facilities; Public administration buildings; Recreation facilities (major); Recreation facilities (outdoor); Research stations; Residential accommodation; Restricted premises; Retail premises; Rural industries; Sewerage systems; Tourist and visitor accommodation; Vehicle body repair workshops; Waste or resource management facilities; Water recreation structures; Water supply systems; Wholesale supplies

Item 2 (e) – Minimum land dimensions

There are NO minimum land dimensions for the erection of a dwelling house on the land. All applications for the erection of a dwelling house will be assessed in accordance with the Environmental Planning and Assessment Act, 1979.

Item 2 (f) – Critical habitat

The land DOES NOT include or comprise critical habitat.

Item 2 (g) – Conservation Area

The land IS NOT within a heritage conservation area referred to in Schedule 5 of Marrickville Local Environmental Plan 2011

Item 2 (h) – Heritage Item

An item of environmental heritage IS NOT situated on the land under Marrickville Local Environmental Plan 2011

ITEM 2A

Zoning and land use under State Environmental Planning Policy (Sydney Region Growth Centres) 2006

To the extent that the land is within any zone (however described) under:

(a) Part 3 of the *State Environmental Planning Policy (Sydney Region Growth Centres) 2006* (**the 2006 SEPP**), or

(b) a Precinct Plan (within the meaning of the 2006 SEPP), or

(c) a proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act,

the particulars referred to in clause 2 (a)–(h) in relation to that land (with a reference to "the instrument" in any of those paragraphs being read as a reference to Part 3 of the 2006 SEPP, or the Precinct Plan or proposed Precinct Plan, as the case requires).

The land IS NOT land to which State Environmental Planning Policy (Sydney Region Growth Centres) 2006 applies.

ITEM 3

Complying development

(1) The extent to which the land is land on which complying development may be carried out under each of the codes for complying development because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.*

(2) The extent to which complying development may not be carried out on that land because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of that Policy and the reasons why it may not be carried out under those clauses.

(3) If the council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land, a statement that a restriction applies to the land, but it may not apply to all of the land, and that council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land.

Please note: The following land-based affectations may affect only part of the land parcel: ANEF25+, Acid Sulfate Soils, Heritage Item (Local and State), Heritage Conservation Area, Heritage Interim Order, Foreshore Building Line and Land Reserved for Acquisition. Please check the planning maps to determine the extent of the affectation(s) to establish if Complying Development is allowed on part of the land parcel.

General Housing Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Commercial and Industrial (New Buildings and Additions) Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Housing Alterations Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

General Development Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Commercial and Industrial Alterations Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Subdivisions Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Demolition Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Fire Safety Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

ITEM 4

Coastal protection

Whether or not the land is affected by the operation of section 38 or 39 of the *Coastal Protection Act 1979*, but only to the extent that the council has been so notified by the Department of Services, Technology and Administration.

No.

ITEM 4A

Certain information relating to beaches and coasts

(1) In relation to a coastal council – whether an order has been made under Part 4D of the *Coastal Protection Act 1979* in relation to temporary coastal protection works (within the meaning of that Act) on the land (or on public land adjacent to that land), except where the council is satisfied that such an order has been fully complied with.

NO order has been made under Part 4D of the *Coastal Protection Act 1979.*

(2) In relation to a coastal council:

(a) whether the council has been notified under section 55X of the *Coastal Protection Act 1979* that temporary coastal protection works (within the meaning of that Act) have been placed on the land (or on public land adjacent to that land), and

Council HAS NOT been notified under Section 55X of the *Coastal Protection Act 1979.*

(b) if works have been so placed – whether the council is satisfied that the works have been removed and the land restored in accordance with that Act.

Not Applicable

ITEM 4B

Annual charges under Local Government Act 1993 for coastal protection services that relate to the existing coastal protection works

> In relation to a coastal council – whether the owner (or any previous owner) of the land has consented in writing to the land being subject to annual charges under section 496B of the *Local Government Act 1993* for coastal protection services that relate to existing coastal protection works (within the meaning of section 553B of that Act).

The land IS NOT subject to any annual charges under Section 496B of the *Local Government Act 1993.*

ITEM 5

Mine subsidence

> Whether or not the land is proclaimed to be a mine subsidence district within the meaning of section 15 of the *Mine Subsidence Compensation Act 1961.*

No.

ITEM 6

Road widening and road realignment

> Whether or not the land is affected by any road widening or road realignment under:
> (a) Division 2 of Part 3 of the Roads Act 1993, or
> (b) any environmental planning instrument, or
> (c) any resolution of the council.

The land IS NOT affected by a road widening or road realignment under:
(i) Part 3 Division 2 of the Roads Act 1993
(ii) any environmental planning instrument; or
(iii) any resolution of the Council

ITEM 7

Council and other public authority policies on hazard risk restrictions

> Whether or not the land is affected by a policy:
> (a) adopted by the council, or
> (b) adopted by any other public authority and notified to the council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the council,
>
> that restricts the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulphate soils or any other risk (other than flooding).

- Council HAS adopted by resolution and in accordance with S.72 of the Environmental Planning & Assessment Act, 1979 a development control plan incorporating Council's policy on contaminated land. The Plan has been prepared substantially in accordance with State Environmental Planning Policy No. 55, and the Contaminated Land Planning Guidelines. This policy may affect development of land:

  (a) which is affected by contamination;
  (b) which has been used for certain purposes;
  (c) in respect of which there is not sufficient information about contamination;
  (d) which is proposed to be used for certain purposes;

(e) in other circumstances contained in the development control plan and policy;

and in some cases may restrict the development of land.

- Council HAS NOT by resolution (aside from the matters raised in the above item(s)) adopted a policy to restrict the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulfate soils or any other risk (other than flooding).

- Council HAS received no notification of the type described in item 7(b) from a public authority of a policy adopted by that authority that restricts the development of the land because of land slip, bushfire, tidal inundation, subsidence, acid sulfate soils or any other risk (other than flooding).

ITEM 7A

Flood related development controls information

(1)	Whether or not development on that land or part of the land for the purposes of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings (not including development for the purposes of group homes or seniors housing) is subject to flood related development controls.

Yes. Land is identified as flood-affected according to the draft Hawthorne Canal Flood Study, prepared for Council in 2015.

(2)	Whether or not development on that land or part of the land for any other purpose is subject to flood related development controls.

Yes. Land is identified as flood-affected according to the draft Hawthorne Canal Flood Study, prepared for Council in 2015.

(3)	Words and expressions in this clause have the same meaning as in the instrument set out in the Schedule to the *Standard Instrument (Local Environmental Plan) Order 2006.*

ITEM 8

Land reserved for acquisition

Whether or not any environmental planning instrument or proposed environmental planning instrument referred to in clause 1 makes provision in relation to the acquisition of the land by a public authority, as referred to in section 27 of the Act.

The land IS NOT reserved, in part or whole, for acquisition by a public authority, as referred to in section 27 of the Act, under:

(i) any environmental planning instrument
(ii) deemed environmental planning instrument; or
(iii) draft environmental planning instrument

ITEM 9

Contributions plans

The name of each contributions plan applying to the land.

- Marrickville Section 94/94A Contributions Plan 2004.
- Marrickville Section 94/94A Contributions Plan 2014.

ITEM 9A

Biodiversity certified land

If the land is biodiversity certified land (within the meaning of *Part 7AA of the Threatened Species Conservation Act 1995*) a statement to that effect.

The land IS NOT biodiversity certified land (within the meaning of Part 7AA of the Threatened Species Conservation Act 1995).

ITEM 10

Biobanking agreements

If the land is land to which a biobanking agreement under *Part 7A of the Threatened Species Conservation Act 1995* relates, a statement to that effect (but only if the council has been notified of the existence of the agreement by the Director-General of the Department of Environment, Climate Change and Water).

The land IS NOT land to which a biobanking agreement under Part 7A of the Threatened Species Conservation Act 1995 relates.

ITEM 11

Bush fire prone land

If any of the land is bush fire prone land (as defined in the Act), a statement that all or, as the case may be, some of the land is bush fire prone land.

If none of the land is bush fire prone land, a statement to that effect.

The land IS NOT bush fire prone land.

ITEM 12

Property vegetation plans

If the land is land to which a property vegetation plan under the *Native Vegetation Act 2003* applies, a statement to that effect (but only if the council has been notified of the existence of the plan by the person or body that approved the plan under that Act).

No.

ITEM 13

Orders under Trees (Disputes Between Neighbours) Act 2006

Whether an order has been made under the *Trees (Disputes Between Neighbours) Act 2006* to carry out work in relation to a tree on the land (but only if the council has been notified of the order).

No.

ITEM 14

Directions under Part 3A

If there is a direction by the Minister in force under section 75P (2) (c1) of the Act that a provision of an environmental planning instrument prohibiting or restricting the carrying out of a project or a stage of a project on the land under Part 4 of the Act does not have effect, a statement to that effect identifying the provision that does not have effect.

No.

ITEM 15

Site compatibility certificates and conditions for seniors housing

If the land is land to which *State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004* applies:

(a) a statement of whether there is a current site compatibility certificate (seniors housing), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
   (i) the period for which the certificate is current, and
   (ii) that a copy may be obtained from the head office of the Department of Planning, and

(b) a statement setting out any terms of a kind referred to in clause 18 (2) of that Policy that have been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land.

Item 15(a)

There IS NOT a current site compatibility certificate (seniors housing) relating to the land

Item 15(b)

There ARE NO applicable terms of a kind referred to in clause 18(2) of that Policy that have been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land

ITEM 16

Site compatibility certificate for Infrastructure

A statement of whether there is a valid site compatibility certificate (infrastructure), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
(a) the period for which the certificate is valid, and
(b) that a copy may be obtained from the head office of the Department of Planning.

There IS NOT a current site compatibility certificate (infrastructure) relating to the land

ITEM 17

Site compatibility certificate and conditions affecting affordable rental housing

(1) A statement of whether there is a current site compatibility certificate (affordable rental housing), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
(a) the period for which the certificate is current, and
(b) that a copy may be obtained from the head office of the Department of Planning.

(2) A statement setting out any terms of a kind referred to in clause 17 (1) or 38 (1) of *State Environmental Planning Policy (Affordable Rental Housing) 2009* that have been imposed as a condition of consent to a development application in respect of the land.

Item 17(1)

There IS NOT a current site compatibility certificate (affordable rental housing) relating to the land

Item 17(2)

There ARE NO applicable terms of a kind referred to in clause 17(1) or 38(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 that have been imposed as a condition of consent to a development application in respect of the land

ITEM 18

Paper subdivision information

(1) The name of any development plan adopted by a relevant authority that applies to the land or that is proposed to be subject to a consent ballot.

Nil.

(2) The date of any subdivision order that applies to the land.

Not applicable.

(3) Words and expressions used in this clause have the same meaning as they have in Part 16C of this Regulation.

Not Applicable.

ITEM 19

Site verification certificates

(1) A statement of whether there is a current site verification certificate, of which council is aware, in respect of the land and, if there is a certificate, the statement is to include:

a) the matter certified by the certificate, and

Note: A site verification certificate sets out the Director-General's opinion as to whether the land concerned is or is not biophysical strategic agricultural land or critical industry cluster land – see Division 3 of Part 4AA of the *State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007.*

b) the date on which the certificate ceases to be current (if any), and
c) that a copy may be obtained from the head office of the Department of Planning and Infrastructure

Not applicable.

ITEM 20

Loose-fill asbestos insulation

If the land includes any residential premises (within the meaning of Division 1A of Part 8 of the *Home Building Act 1989)* that are listed on the register that is required to be maintained under that Division, a statement to that effect.

No.

OTHER ITEMS (i)

Section 23 exemption or Section 24 authorisation

Whether an exemption under Section 23 or an authorisation under section 24 of the *Nation Building and Jobs Plan (State Infrastructure Delivery) Act 2009* No 1 has been issued by the Co-ordinator General in relation to the land.

An exemption under Section 23 or an authorisation under Section 24 of the Nation Building and Jobs Plan (State Infrastructure Delivery) Act 2009 No 1 HAS NOT been issued by the Co-ordinator General in relation to the land.

OTHER ITEMS (ii)

Matters arising under the Contaminated Land Management Act 1997

Section 59(2) of the *Contaminated Land Management Act 1997* prescribes the following additional matters that are to be specified in a planning certificate:
(a) that the land to which the certificate relates is significantly contaminated land within the meaning of that Act - if the land (or part of the land) is significantly contaminated land at the date when the certificate is issued,

No.

(b)	that the land to which the certificate relates is subject to a management order within the meaning of the Act - if it is subject to such an order at the date when the certificate is issued,

No.

(c)	that the land to which the certificate relates is the subject of an approved voluntary management proposal within the meaning of that Act - if it is the subject of such an approved proposal at the date when the certificate is issued,

No.

(d)	that the land to which the certificate relates is subject to an ongoing maintenance order within the meaning of the Act - if it is subject to such an order at the date when the certificate is issued,

No.

(e)	that the land to which the certificate relates is the subject of a site audit statement within the meaning of the Act - if a copy of such a statement has been provided at any time to the local authority issuing the certificate.

No.

Information provided in this planning certificate is in accordance with the matters prescribed under Schedule 4 of the Environmental Planning and Assessment Regulation 2000.

Council draws your attention to Section 149 (6) which states that a Council shall not incur any liability in respect of any advice provided in good faith pursuant to subsection (5).

This is the end of the Certificate as prescribed under section 149(2) of the Environmental Planning and Assessment Act 1979.

Please contact the Planning Services Section for further information about any instruments or affectations referred to in the Certificate.

MARCUS ROWAN
MANAGER, PLANNING SERVICES

INNER WEST COUNCIL

PLANNING CERTIFICATE UNDER SECTION 149 OF THE ENVIRONMENTAL PLANNING & ASSESSMENT ACT, 1979.

APPLICANT
S GLOBAL
Po Box 447
Southbank VIC 3205
epropertysupport@saiglobal.com

PROPERTY
480 New Canterbury Road
DULWICH HILL NSW 2203
Lot 1 DP 236603

PROPERTY NO.
18202

REFERENCE

In accordance with the requirements of section 149 of the Environmental Planning and Assessment Act 1979, the following prescribed matters relate to the land at the date of this certificate.

ITEM 1

Names of relevant planning instruments and DCPs

(1)	The name of each environmental planning instrument that applies to the carrying out of development on the land.

1. The following environmental planning instruments apply to the land:

- Marrickville Local Environmental Plan 2011
- deemed S.E.P.P. (Sydney Harbour Catchment) 2005
- S.E.P.P. No. 19 Bushland in Urban Areas
- S.E.P.P. No. 21 Caravan Parks
- S.E.P.P. No. 30 Intensive Agriculture
- S.E.P.P. No. 32 Urban Consolidation (Redevelopment of Urban Land)
- S.E.P.P. No. 33 Hazardous and Offensive Development
- S.E.P.P. No. 50 Canal Estate Development
- S.E.P.P. No. 55 Remediation of Land
- S.E.P.P. No. 62 Sustainable Aquaculture
- S.E.P.P. No. 64 Advertising and Signage
- S.E.P.P. No. 65 Design Quality of Residential Flat Development
- S.E.P.P. (Housing for Seniors or People with a Disability) 2004
- S.E.P.P. (Building Sustainability Index: BASIX) 2004
- S.E.P.P. (Major Development) 2005
- S.E.P.P. (Mining, Petroleum Production and Extractive Industries) 2007
- S.E.P.P. (Miscellaneous Consent Provisions) 2007
- S.E.P.P. (Infrastructure) 2007
- S.E.P.P. (Exempt and Complying Development Codes) 2008

- S.E.P.P. (Affordable Rental Housing) 2009

Any enquiries regarding these State Planning Policies should be directed to the Department of Planning on: ***1300 305 695 or 02 9228 6333.*** *Information can also be obtained from the Department's website at http://www.planning.nsw.gov.au*

(1)	The name of each proposed environmental planning instrument that will apply to the carrying out of development on the land and that is or has been the subject of community consultation or on public exhibition under the Act (unless the Director-General has notified the council that the making of the proposed instrument has been deferred indefinitely or has not been approved).

2. The following proposed environmental planning instruments apply to the land:

- None

(2)	The name of each development control plan that applies to the carrying out of development on the land.

3. The following development controls plan (D.C.P) apply to the land:

- Marrickville Development Control Plan 2011

ITEM 2

Zoning and land use under relevant LEPs

For each environmental planning instrument or proposed instrument referred to in clause 1 (other than a SEPP or proposed SEPP) that includes the land in any zone (however described):

(a) the identity of the zone, whether by reference to a name (such as "Residential Zone" or Heritage Area") or by reference to a number (such as "Zone No 2 (a)"),

(b) the purposes for which the instrument provides that development may be carried out within the zone without the need for development consent,

(c) the purposes for which the instrument provides that development may not be carried out within the zone except with development consent,

(d) the purposes for which the instrument provides that development is prohibited within the zone,

(e) whether any development standards applying to the land fix minimum land dimensions for the erection of a dwelling-house on the land and, if so, the minimum land dimensions so fixed,

(f) whether the land includes or comprises critical habitat,

(g) whether the land is in a conservation area (however described),

(h) whether an item of environmental heritage (however described) is situated on the land.

Item 2 (a), (b), (c) & (d) – Zoning and Land use table

IN2 - Light Industrial

1 Objectives of zone

•To provide a wide range of light industrial, warehouse and related land uses.

•To encourage employment opportunities and to support the viability of centres.

•To minimise any adverse effect of industry on other land uses.

•To enable other land uses that provide facilities or services to meet the day to day needs of workers in the area.

•To support and protect industrial land for industrial uses.

•To provide business and office premises for the purposes of certain art, technology, production and design sectors.

•To enable a purpose-built dwelling house to be used in certain circumstances as a dwelling house.

2 Permitted without consent

Home occupations

3 Permitted with consent

Depots; Dwelling houses; Garden centres; Hardware and building supplies; Hospitals; Industrial training facilities; Intensive plant agriculture; Kiosks; Landscaping material supplies; Light industries; Markets; Neighbourhood shops; Plant nurseries; Roads; Sewage reticulation systems; Take away food and drink premises; Vehicle sales or hire premises; Warehouse or distribution centres; Any other development not specified in item 2 or 4

4 Prohibited

Agriculture; Air transport facilities; Airstrips; Amusement centres; Animal boarding or training establishments; Boat launching ramps; Boat sheds; Camping grounds; Caravan parks; Cemeteries; Charter and tourism boating facilities; Correctional centres; Crematoria; Eco-tourist facilities; Environmental facilities; Exhibition homes; Exhibition villages; Extractive industries; Farm buildings; Forestry; Freight transport facilities; Function centres; Health services facilities; Heavy industrial storage establishments; Helipads; Highway service centres; Home occupations (sex services); Industries; Information and education facilities; Jetties; Marinas; Mooring pens; Moorings; Open cut mining; Passenger transport facilities; Port facilities; Public administration buildings; Recreation facilities (major); Recreation facilities (outdoor); Research stations; Residential accommodation; Restricted premises; Retail premises; Rural industries; Sewerage systems; Tourist and visitor accommodation; Vehicle body repair workshops; Waste or resource management facilities; Water recreation structures; Water supply systems; Wholesale supplies

Item 2 (e) – Minimum land dimensions

There are NO minimum land dimensions for the erection of a dwelling house on the land. All applications for the erection of a dwelling house will be assessed in accordance with the Environmental Planning and Assessment Act, 1979.

Item 2 (f) – Critical habitat

The land DOES NOT include or comprise critical habitat.

Item 2 (g) – Conservation Area

The land IS NOT within a heritage conservation area referred to in Schedule 5 of Marrickville Local Environmental Plan 2011

Item 2 (h) – Heritage Item

An item of environmental heritage IS NOT situated on the land under Marrickville Local Environmental Plan 2011

ITEM 2A

Zoning and land use under State Environmental Planning Policy (Sydney Region Growth Centres) 2006

To the extent that the land is within any zone (however described) under:

(a) Part 3 of the *State Environmental Planning Policy (Sydney Region Growth Centres) 2006* (**the 2006 SEPP**), or

(b) a Precinct Plan (within the meaning of the 2006 SEPP), or

(c) a proposed Precinct Plan that is or has been the subject of community consultation or on public exhibition under the Act,

the particulars referred to in clause 2 (a)–(h) in relation to that land (with a reference to "the instrument" in any of those paragraphs being read as a reference to Part 3 of the 2006 SEPP, or the Precinct Plan or proposed Precinct Plan, as the case requires).

The land IS NOT land to which State Environmental Planning Policy (Sydney Region Growth Centres) 2006 applies.

ITEM 3

Complying development

(1) The extent to which the land is land on which complying development may be carried out under each of the codes for complying development because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of *State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.*

(2) The extent to which complying development may not be carried out on that land because of the provisions of clauses 1.17A (1) (c) to (e), (2), (3) and (4), 1.18 (1) (c3) and 1.19 of that Policy and the reasons why it may not be carried out under those clauses.

(3) If the council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land, a statement that a restriction applies to the land, but it may not apply to all of the land, and that council does not have sufficient information to ascertain the extent to which complying development may or may not be carried out on the land.

Please note: The following land-based affectations may affect only part of the land parcel: ANEF25+, Acid Sulfate Soils, Heritage Item (Local and State), Heritage Conservation Area, Heritage Interim Order, Foreshore Building Line and Land Reserved for Acquisition. Please check the planning maps to determine the extent of the affectation(s) to establish if Complying Development is allowed on part of the land parcel.

General Housing Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Commercial and Industrial (New Buildings and Additions) Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Housing Alterations Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

General Development Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Commercial and Industrial Alterations Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Subdivisions Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Demolition Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

Fire Safety Code

Yes. Complying Development under State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 may be carried out on this land subject to an assessment of compliance with the requirements of the SEPP.

ITEM 4

Coastal protection

Whether or not the land is affected by the operation of section 38 or 39 of the *Coastal Protection Act 1979*, but only to the extent that the council has been so notified by the Department of Services, Technology and Administration.

No.

ITEM 4A

Certain information relating to beaches and coasts

(1) In relation to a coastal council – whether an order has been made under Part 4D of the *Coastal Protection Act 1979* in relation to temporary coastal protection works (within the meaning of that Act) on the land (or on public land adjacent to that land), except where the council is satisfied that such an order has been fully complied with.

NO order has been made under Part 4D of the *Coastal Protection Act 1979.*

(2) In relation to a coastal council:

(a) whether the council has been notified under section 55X of the *Coastal Protection Act 1979* that temporary coastal protection works (within the meaning of that Act) have been placed on the land (or on public land adjacent to that land), and

Council HAS NOT been notified under Section 55X of the *Coastal Protection Act 1979.*

(b) if works have been so placed – whether the council is satisfied that the works have been removed and the land restored in accordance with that Act.

Not Applicable

ITEM 4B

Annual charges under Local Government Act 1993 for coastal protection services that relate to the existing coastal protection works

> In relation to a coastal council – whether the owner (or any previous owner) of the land has consented in writing to the land being subject to annual charges under section 496B of the *Local Government Act 1993* for coastal protection services that relate to existing coastal protection works (within the meaning of section 553B of that Act).

The land IS NOT subject to any annual charges under Section 496B of the *Local Government Act 1993.*

ITEM 5

Mine subsidence

> Whether or not the land is proclaimed to be a mine subsidence district within the meaning of section 15 of the *Mine Subsidence Compensation Act 1961.*

No.

ITEM 6

Road widening and road realignment

> Whether or not the land is affected by any road widening or road realignment under:
> (a) Division 2 of Part 3 of the Roads Act 1993, or
> (b) any environmental planning instrument, or
> (c) any resolution of the council.

The land IS NOT affected by a road widening or road realignment under:
(i) Part 3 Division 2 of the Roads Act 1993
(ii) any environmental planning instrument; or
(iii) any resolution of the Council

ITEM 7

Council and other public authority policies on hazard risk restrictions

> Whether or not the land is affected by a policy:
> (a) adopted by the council, or
> (b) adopted by any other public authority and notified to the council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the council,
>
> that restricts the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulphate soils or any other risk (other than flooding).

- Council HAS adopted by resolution and in accordance with S.72 of the Environmental Planning & Assessment Act, 1979 a development control plan incorporating Council's policy on contaminated land. The Plan has been prepared substantially in accordance with State Environmental Planning Policy No. 55, and the Contaminated Land Planning Guidelines. This policy may affect development of land:

  (a) which is affected by contamination;
  (b) which has been used for certain purposes;
  (c) in respect of which there is not sufficient information about contamination;
  (d) which is proposed to be used for certain purposes;

(e) in other circumstances contained in the development control plan and policy;

and in some cases may restrict the development of land.

- Council HAS NOT by resolution (aside from the matters raised in the above item(s)) adopted a policy to restrict the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulfate soils or any other risk (other than flooding).

- Council HAS received no notification of the type described in item 7(b) from a public authority of a policy adopted by that authority that restricts the development of the land because of land slip, bushfire, tidal inundation, subsidence, acid sulfate soils or any other risk (other than flooding).

ITEM 7A

Flood related development controls information

(1)	Whether or not development on that land or part of the land for the purposes of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings (not including development for the purposes of group homes or seniors housing) is subject to flood related development controls.

Yes. Land is identified as flood-affected according to the draft Hawthorne Canal Flood Study, prepared for Council in 2015.

(2)	Whether or not development on that land or part of the land for any other purpose is subject to flood related development controls.

Yes. Land is identified as flood-affected according to the draft Hawthorne Canal Flood Study, prepared for Council in 2015.

(3)	Words and expressions in this clause have the same meaning as in the instrument set out in the Schedule to the *Standard Instrument (Local Environmental Plan) Order 2006.*

ITEM 8

Land reserved for acquisition

Whether or not any environmental planning instrument or proposed environmental planning instrument referred to in clause 1 makes provision in relation to the acquisition of the land by a public authority, as referred to in section 27 of the Act.

The land IS NOT reserved, in part or whole, for acquisition by a public authority, as referred to in section 27 of the Act, under:

(i) any environmental planning instrument
(ii) deemed environmental planning instrument; or
(iii) draft environmental planning instrument

ITEM 9

Contributions plans

The name of each contributions plan applying to the land.

- Marrickville Section 94/94A Contributions Plan 2004.
- Marrickville Section 94/94A Contributions Plan 2014.

ITEM 9A

Biodiversity certified land

If the land is biodiversity certified land (within the meaning of *Part 7AA of the Threatened Species Conservation Act 1995*) a statement to that effect.

The land IS NOT biodiversity certified land (within the meaning of Part 7AA of the Threatened Species Conservation Act 1995).

ITEM 10

Biobanking agreements

If the land is land to which a biobanking agreement under *Part 7A of the Threatened Species Conservation Act 1995* relates, a statement to that effect (but only if the council has been notified of the existence of the agreement by the Director-General of the Department of Environment, Climate Change and Water).

The land IS NOT land to which a biobanking agreement under Part 7A of the Threatened Species Conservation Act 1995 relates.

ITEM 11

Bush fire prone land

If any of the land is bush fire prone land (as defined in the Act), a statement that all or, as the case may be, some of the land is bush fire prone land.

If none of the land is bush fire prone land, a statement to that effect.

The land IS NOT bush fire prone land.

ITEM 12

Property vegetation plans

If the land is land to which a property vegetation plan under the *Native Vegetation Act 2003* applies, a statement to that effect (but only if the council has been notified of the existence of the plan by the person or body that approved the plan under that Act).

No.

ITEM 13

Orders under Trees (Disputes Between Neighbours) Act 2006

Whether an order has been made under the *Trees (Disputes Between Neighbours) Act 2006* to carry out work in relation to a tree on the land (but only if the council has been notified of the order).

No.

ITEM 14

Directions under Part 3A

If there is a direction by the Minister in force under section 75P (2) (c1) of the Act that a provision of an environmental planning instrument prohibiting or restricting the carrying out of a project or a stage of a project on the land under Part 4 of the Act does not have effect, a statement to that effect identifying the provision that does not have effect.

No.

ITEM 15

Site compatibility certificates and conditions for seniors housing

If the land is land to which *State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004* applies:

(a) a statement of whether there is a current site compatibility certificate (seniors housing), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
   (i) the period for which the certificate is current, and
   (ii) that a copy may be obtained from the head office of the Department of Planning, and

(b) a statement setting out any terms of a kind referred to in clause 18 (2) of that Policy that have been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land.

Item 15(a)

There IS NOT a current site compatibility certificate (seniors housing) relating to the land

Item 15(b)

There ARE NO applicable terms of a kind referred to in clause 18(2) of that Policy that have been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land

ITEM 16

Site compatibility certificate for Infrastructure

A statement of whether there is a valid site compatibility certificate (infrastructure), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
(a) the period for which the certificate is valid, and
(b) that a copy may be obtained from the head office of the Department of Planning.

There IS NOT a current site compatibility certificate (infrastructure) relating to the land

ITEM 17

Site compatibility certificate and conditions affecting affordable rental housing

(1) A statement of whether there is a current site compatibility certificate (affordable rental housing), of which the council is aware, in respect of proposed development on the land and, if there is a certificate, the statement is to include:
(a) the period for which the certificate is current, and
(b) that a copy may be obtained from the head office of the Department of Planning.

(2) A statement setting out any terms of a kind referred to in clause 17 (1) or 38 (1) of *State Environmental Planning Policy (Affordable Rental Housing) 2009* that have been imposed as a condition of consent to a development application in respect of the land.

Item 17(1)

There IS NOT a current site compatibility certificate (affordable rental housing) relating to the land

Item 17(2)

There ARE NO applicable terms of a kind referred to in clause 17(1) or 38(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 that have been imposed as a condition of consent to a development application in respect of the land

ITEM 18

Paper subdivision information

(1) The name of any development plan adopted by a relevant authority that applies to the land or that is proposed to be subject to a consent ballot.

Nil.

(2) The date of any subdivision order that applies to the land.

Not applicable.

(3) Words and expressions used in this clause have the same meaning as they have in Part 16C of this Regulation.

Not Applicable.

ITEM 19

Site verification certificates

(1) A statement of whether there is a current site verification certificate, of which council is aware, in respect of the land and, if there is a certificate, the statement is to include:

a) the matter certified by the certificate, and

Note: A site verification certificate sets out the Director-General's opinion as to whether the land concerned is or is not biophysical strategic agricultural land or critical industry cluster land – see Division 3 of Part 4AA of the *State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007.*

b) the date on which the certificate ceases to be current (if any), and
c) that a copy may be obtained from the head office of the Department of Planning and Infrastructure

Not applicable.

ITEM 20

Loose-fill asbestos insulation

If the land includes any residential premises (within the meaning of Division 1A of Part 8 of the *Home Building Act 1989)* that are listed on the register that is required to be maintained under that Division, a statement to that effect.

No.

OTHER ITEMS (i)

Section 23 exemption or Section 24 authorisation

Whether an exemption under Section 23 or an authorisation under section 24 of the *Nation Building and Jobs Plan (State Infrastructure Delivery) Act 2009* No 1 has been issued by the Co-ordinator General in relation to the land.

An exemption under Section 23 or an authorisation under Section 24 of the Nation Building and Jobs Plan (State Infrastructure Delivery) Act 2009 No 1 HAS NOT been issued by the Co-ordinator General in relation to the land.

OTHER ITEMS (ii)

Matters arising under the Contaminated Land Management Act 1997

Section 59(2) of the *Contaminated Land Management Act 1997* prescribes the following additional matters that are to be specified in a planning certificate:
(a) that the land to which the certificate relates is significantly contaminated land within the meaning of that Act - if the land (or part of the land) is significantly contaminated land at the date when the certificate is issued,

No.

(b)	that the land to which the certificate relates is subject to a management order within the meaning of the Act - if it is subject to such an order at the date when the certificate is issued,

No.

(c)	that the land to which the certificate relates is the subject of an approved voluntary management proposal within the meaning of that Act - if it is the subject of such an approved proposal at the date when the certificate is issued,

No.

(d)	that the land to which the certificate relates is subject to an ongoing maintenance order within the meaning of the Act - if it is subject to such an order at the date when the certificate is issued,

No.

(e)	that the land to which the certificate relates is the subject of a site audit statement within the meaning of the Act - if a copy of such a statement has been provided at any time to the local authority issuing the certificate.

No.

Information provided in this planning certificate is in accordance with the matters prescribed under Schedule 4 of the Environmental Planning and Assessment Regulation 2000.

Council draws your attention to Section 149 (6) which states that a Council shall not incur any liability in respect of any advice provided in good faith pursuant to subsection (5).

This is the end of the Certificate as prescribed under section 149(2) of the Environmental Planning and Assessment Act 1979.

Please contact the Planning Services Section for further information about any instruments or affectations referred to in the Certificate.

MARCUS ROWAN
MANAGER, PLANNING SERVICES

APPENDIX D – HISTORICAL LAND TITLE EXTRACTS

SEARCH REPORT

DATE: 1 March 2017

MATTER Joanne: Our Ref: 21192/7558C: P. O. No# E-2017-68

ORDER NUMBER: 42190305

SUBJECT LAND: 466-480 NEW CANTERBURY ROAD & 26-38 HERCULES STREET, DULWICH HILL, NSW

SAI GLOBAL
PROPERTY

Disclaimer
While all due skill and care has been taken in the preparation of this report, SAI Global Property Division Pty Ltd does not warrant that its contents (that have been obtained from publicly available resources at a particular point in time) are accurate, complete, up to date or fit for any particular purpose

SEARCH REPORT

LPI **RECORDS BRANCH**

SUBJECT LAND: LOT 1 IN DP 236603

LOT 2 IN DP236603

LOT 3 IN DP 236603

LOT 1 IN DP 540366

LOT 2 IN DP540366

LOT 4 IN DP 542147

LOT 3 IN DP 542147

LOT 2 IN DP 542147

LOT 1 IN DP542147

LOT 14 SECTION 4 DP932

LOT 4 IN DP 540366

LOT 7 IN DP 236603

LOT 6 IN DP 236603

LOT 5 IN DP 236603

466-480 NEW CANTERBURY ROAD & 26-38 HERCULES STREET, DULWICH HILL

CONT'D OVER

RE: LOT 1 IN DP 236603

OWNERSHIP:

From 1920 to 4/12/1940 - John Thomas Ness of Dulwich Hill, Produce Merchant/Real Estate Agent

From 4/12/1940 to 1/1/1944 - Elizabeth Donnelly of Dulwich Hill, Widow (OF PART)

From 1/1/1944 to 20/4/1950 - Sydney Coleman of Dulwich Hill, Member of the AIF (OF PART)

From 4/12/1940 to 2/11/1953 - Gaetano Peluso of Petersham, Timber Merchant (OF PART and later the WHOLE)

From 2/11/1953 to 14/4/1967 - Western Timber Co. Pty. Ltd.

From 14/4/1967 to 4/6/1969 - Harry Robert Oliver of Mosman, Builder

From 4/6/1969 to 6/10/1976 - Wolf Electric Tools (Australia) Pty. Ltd.

From 6/10/1976 to 8/2/1994 - London Trading Company Pty. Ltd.

From 8/2/1994 to 2/7/2002 - Albert Masri & Zeina Masri

From 2/7/2002 to date - Sam Sool Kim & Eun Hyung Shim

LEASES - NIL

RE: LOT 2 IN DP 236603

OWNERSHIP:

From 1920 to 4/12/1940 - John Thomas Ness of Dulwich Hill, Produce Merchant/Real Estate Agent

From 4/12/1940 to 2/11/1953 - Gaetano Peluso of Petersham, Timber Merchant

From 2/11/1953 to 14/4/1967 - Western Timber Co. Pty. Ltd.

From 14/4/1967 to 30/5/1969 - Harry Robert Oliver of Mosman, Builder

From 30/5/1969 to 6/2/1986 - Leonard John Hinds of Gordon, Company Director

From 6/2/1986 to 4/6/1993 - Esther Winifred Hinds

From 4/6/1993 to 28/8/1998 - James Duncan Beaton Burns & Stewart Lawrence Graham

From 28/8/1998 to 31/5/2007 - Aristidis Manthos & John Manthos

31/5/2007 to 15/12/2011 - Sam Sool Kim & Eun Hyung Shim

CONT'D OVER

From 15 /12/2011 to date - Nicholas Goumis & Fiona Goumis

LEASES:

London Trading Co. Pty Ltd. from 1976 to 1991

RE: LOT 3 IN DP 236603

OWNERSHIP:

AS PER LOT 2 IN DP 236603 UP TO 4/6/1993

From 4/6/1993 to 8/6/2000 - James Duncan Beaton Burns & Stewart Lawrence Graham

From 8/6/2000 to date - Villa Marketown Pty. Ltd.

LEASES:

London Trading Co. Pty. Ltd. from 1976 to 1991

Yves Gazi & Gereus Faransis from 1/3/2001 to 28/2/2006

Yves Gazi from 1/7/2011 to 30/6/2014

RE: LOT 1 IN DP 540366

AS PER LOT 2 IN DP 236603 UP TO 30/3/1973

From 30/3/1973 to 6/2/1987 - Samuel Saul Marshall of Double Bay, Company Director, Lawrence Investments Pty. Ltd. , Sylvia Halperin of Dianella, WA. & Yvonne Renee Klaesi of Chatswood, both Married Women (Samuel Saul Marshall's share transferred to Susan Nelly Ilard of Randwick, Married Woman on 16/6/1978)

From 6/2/1987 to 23/6/1995 - Ezio Cerroni, Frances Mary Cerroni, Emilio Cerroni & Vincenza Linda Cerroni

From 23/6/1995 to 4/5/2000 - Shackel Pty. Ltd.

From 4/5/2000 to date - James Duncan Beaton Burns & Stewart Lawrence Graham

LEASES:

Caroma Sales Pty. Ltd (1970 to 1978)

Lightnin Mixers Pty. Ltd. (1979 to 1982)

CONT'D OVER

Hyman Brothers Pty. Ltd. (1985 to 1987)

RE: LOT 2 IN DP 540366

OWNERSHIP:

From 7/5/1910 to 19/1/1943 - Minnie Lucy Train, wife of Archibald Train of Dulwich Hill, Labourer (OF PART)

19/1/1943 to 15/5/1950 - William Archibald Train of Dulwich Hill, Tramway Employee (OF PART)

From 15/5/1950 to 2/11/1953 - Gaetano Peluso of Petersham, Company Director (OF PART)

From 6/12/1918 to20/2/1939 - Johanna Anderson of Petersham, Widow (OF PART)

From 20/2/1939 to 29/6/1949 - John Robert Anderson of Dulwich Hill, Cleaner (OF PART)

From 29/6/1949 to 27/9/1954 - Ada Selina Beadle of Dulwich Hill, Spinster (OF PART)

From 2/11/1953 to 12/5/1967 - Western Timber Co. Pty. Ltd.

From 12/5/1967 to 30/3/1973 - Harry Robert Oliver of Mosman, Builder

FOR CONTINUATION OF THE TITLE FROM 30/3/1973 THROUGH TO TODAY SEE LOT 1 IN DP 540366

LEASES:

SAME AS LOT 1 IN DP 540366

RE LOT 4 IN DP 542147

OWNERSHIP:

From 11/1/1929 to 11/12/1933 - Andrew Sinclair of Haberfield, Gentleman

From 11/12/1933 to 31/10/1968 - Ernest Edward Davison of Petersham, Newsagent & Flora Mary Davison his wife

From 31/10/1968 to 14/11/1974 - Aston Leslie Norman Wilde of Wahroonga, Company Director & Eileen May Wilde his wife

From 14/11/1974 to 27/2/1989 - Nick Tsimboukis of Dulwich Hill, Dressmaker & Barbara Tsimboukis his wife

From 27/2/1989 to 31/1/2001 - Alekos Galelis & Aspasia Galetis

CONT'D OVER

From 31/1/2001 to 4/7/2002 - George Galelidakis & Betty Galelidakis

From 4/7/2002 to date - Betty Galelidakis (later Galelis)

LEASES: NIL

RE LOT 3 IN DP 542147

OWNERSHIP:

AS PER LOT 4 IN DP 542147 UP TO 23/6/1971

From 23/6/1971 to 1/2/2006 - Milad Sorouni of Earlwood, Process Worker & Zola Sorouni his wife

From 1/2/2006 to date - Arthur Kazas

LEASES: NIL

RE: LOT 2 IN DP 542147

OWNERSHIP:

AS PER LOT 4 IN DP 542147 UP TO 11/9/1970

From 11/9/1970 to 5/6/1989 - Bill Sclavenitis of Annandale, Shopkeeper, Fotini Sclavenitis his wife and Arthur Oremitis of Annandale, Shopkeeper (Arthur Oremitis sold his share to the other owners on 20/1/1972)

From 5/6/1989 to 23/3/1993 - Taner Aydin, Ali Aydin, Turker Aydin & Gulumer Aydin

From 23/3/1993 to date - Tang Kuen Hung Wong

LEASES: numerous leases of shop premises & dweliing

RE: LOT 1 IN DP 542147

OWNERSHIP:

AS PER LOT 4 IN DP 542147 UP TO 9/10/1970

From 9/10/1970 to 30/7/1979 - Apostolos Dimopoulos of Marrickville, Bricklayer & Emerfia Dimopoulos his wife

CONT'D OVER

From 30/7/1979 to 13/5/1997 - Athina Christianos of Bexley, Machinist Dina Kaliva, Machinist & George Dimopoulos, Painter both of Marrichville & Pitsa Waters of Deniliquin, Married Woman

From 13/5/1997 to 30/5/2000 - Fromage Pty. Ltd.

From 30/5/2000 to 25/5/2004 - Shun Sun Kwan

From 25/5/2004 to date - Arnold Villegas Soliman

LEASES: John Andary & Joseph Andary of shop & dwelling (from 1981 to 1984)

RE: LOT 14 SECTION 4 DP932

OWNERSHIP:

From 18/12/1930 to 13/5/1955 - Charles Edward Fry of Dulwich Hill, Blacksmith

From 13/5/1955 to 20/9/1995 - Jack Fry of Dulwich Hill, Biscuit Maker

From 20/9/1995 to 15/12/2005 - Audrey Fry

From 15/12/2005 to 26/9/2007 - Ian David Fry

From 26/9/2007 to date - Alan Walter Scott & Naomi Lea Scott

LEASES: NIL

RE: LOT 4 IN DP540366

OWNERSHIP:

From 3/2/1922 to 21/11/1952 - Hannah Maria Hayward of Marrickville, Widow

From 21/11/1952 to 31/12/1956 - John George Harper of Marrickville, Inspector/Traveller

From 31/12/1956 to 11/8/1976 - Western Timber Co. Pty. Ltd.

From 11/8/1976 to date - Chrysostomos Alemangos, Bishop & Galini Karvelis, Nun both of Marrickville

LEASES: NIL

CONT'D OVER

RE: LOT 7 IN DP 236603

OWNERSHIP:

From 30/9/1910 to 29/5/1939 - Seina Pocock, wife of John Pocock of Paddington, Builder (OF PART)

From 29/5/1939 to 15/9/1947 - Marion Pocock & Elsie Pocock both Leichhardt, Spinsters (OF PART)

From 15/9/1947 to 2/11/1953 - Gaetano Peluso of Petersham, Timber Merchant (OF PART)

From 6/12/1918 to 13/3/1939 - Johanna Anderson of Petersham, Widow (OF PART)

From 13/3/1939 to 29/6/1949 - John Robert Anderson of Dulwich Hill, Cleaner (OF PART)

From 29/61949 to 27/9/1954 - Ada Selina Beadle of Dulwich Hill, Spinster (OF PART)

From 2/11/1953 to 12/5/1967 - Western Timber Co. Pty. Ltd.

From 12/5/1967 to 5/8/1969 - Harry Robert Oliver of Mosman, Builder

From 5/8/1969 to 1/10/1971 - Dawes Investments Pty. Ltd.

From 1/10/1971 to 19/11/1987 - Ganis Pty. Ltd.

From 19/11/1987 to 22/2/1990 - Apex Improvement Services Pty. Ltd.

From 22/2/1990 to 17/3/2014 - George Ghinis

From 17/3/2014 to date - Devonshire IMS Pty. Ltd.

LEASES:

Atlas Air Conditioning Pty. Ltd. (1971 to 1974)

Lightnin Mixers Pty. Ltd. (1974 to 1990)

RE: LOT 6 IN DP 236603

OWNERSHIP:

From 30/4/1931 to 28/4/1943 - George Lewis Eves of Wentworth Falls, Gentleman (OF PART)

From 28/4/1943 to 2/11/1953 - Gaetano Peluso of Petersham, Timber Merchant (OF PART)

From 30/9/1919 to 26/6/1935 - Esther Beatrice Gwyther of Dulwich Hill, Spinster (OF PART)

From 26/6/1935 to 16/12/1955 - Mary Elizabeth Mulqueeny, wife of Sydney Michael Mulqueeny of Manly, Postal Officer (OF PART)

CONT'D OVER

From 2/11/1953 to 12/5/1967 - Western Timber Co. Pty. Ltd

From 12/5/1967 to 1/7/1968 - Harry Robert Oliver of Mosman, Builder

From 1/7/1968 to 1/10/1971 - Dawes Investments Pty. Ltd.

From 1/10 /1971 to 19/11/1987 - Ganis Pty. Ltd.

From 19/11/1987 to 23/5/1991 - Apex Improvement Services Pty. Ltd.

From 23/5/1991 to 15/5/2003 - Maria Vardakas

From 15/5/2003 to date - Panteli Vardakas

LEASES :

Atlas Air Conditioning Pty. Ltd. (1968 to 1974)

Lightnin Mixers Pty. Ltd. (1974 to 1990)

Bryant's Bookkeeping Services Pty. Ltd. (16/7/2014 to 15/7/2016)

RE: LOT 5 IN DP 236603

OWNERSHIP:

From 30/9/1919 to 26/6/1935 - Esther Beatrice Gwyther of Dulwich Hill, Spinster (OF PART)

From 26/6/1935 to 16/12/1955 - Mary Elizabeth Mulqueeny, wife of Sydney Michael Mulqueeney of Manly, Retired Postal Officer (OF PART)

From 16/12/1955 to 12/5/1967 - Western Timber Co. Pty. Ltd. (OF PART)

From 14/6/1917 to 21/12/1966 - William Joseph Dargan of Newtown, Locomotive Driver (OF PART)

From 21/12/1966 to 12/5/1967 - George Wills Co. Ltd. (OF PART)

From 12/5/1967 to 28/10/1968 - Harry Robert Oliver of Mosman, Builder

From 28/10/1968 to 8/5/1998 - King & Tweeddale Pty. Ltd. (later Buna Pty. Ltd.)

From 8/5/1998 to 11/2/2000 - Geoffrey Robert King

From 11/2/2000 to 8/8/2001 - Peter John Bishop & Sarah Louise Bishop

From 8/8/2001 to date - Frank Saya

LEASES: NIL

SAI GLOBAL
Per R Williamson
27-2-2017

Land & Property Information

Cadastral Records Enquiry Report

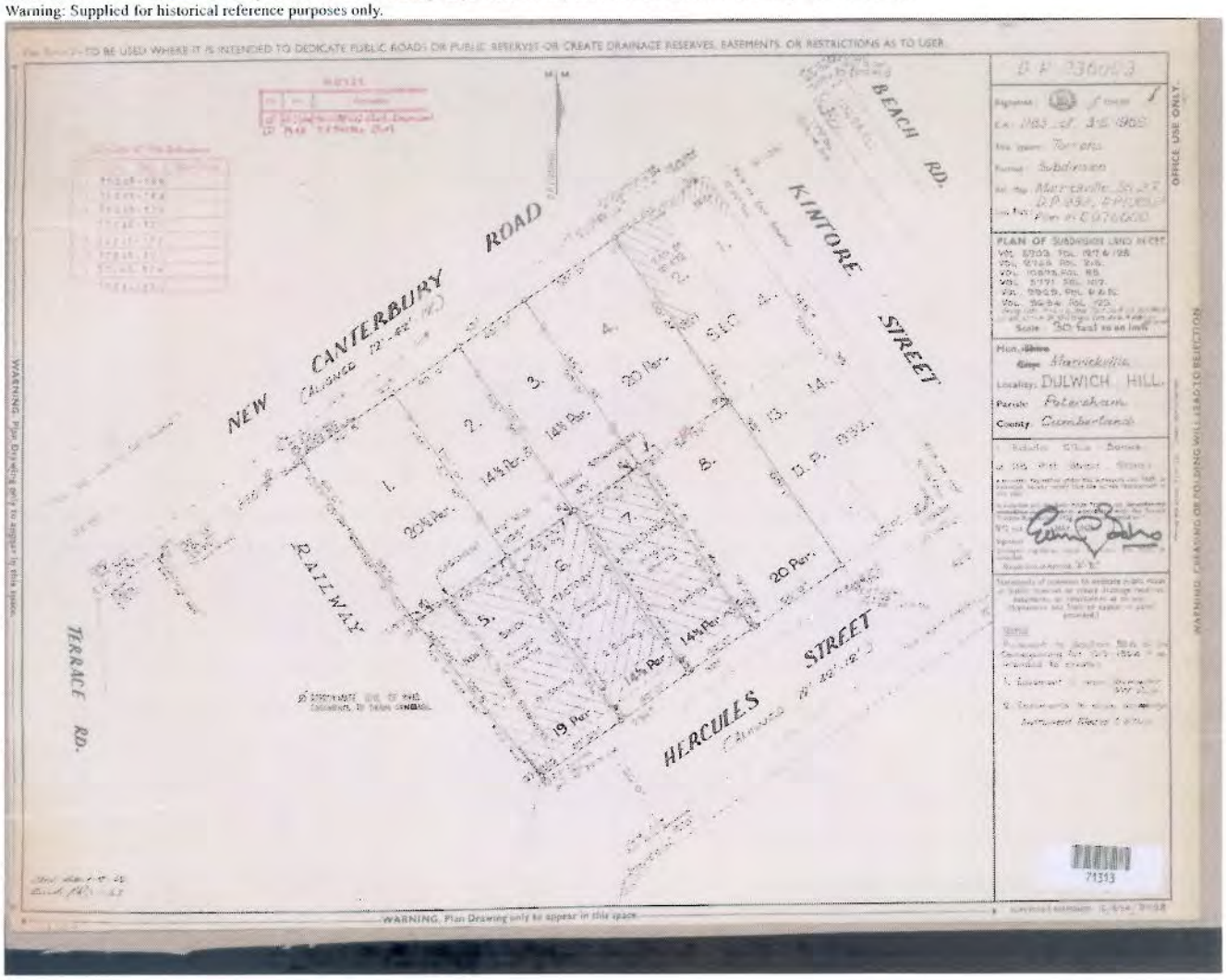
Requested Parcel : Lot 3 DP 542147 **Identified Parcel** : Lot 3 DP 542147

Locality : DULWICH HILL **LGA** : INNER WEST **Parish** : PETERSHAM **County** : CUMBERLAND

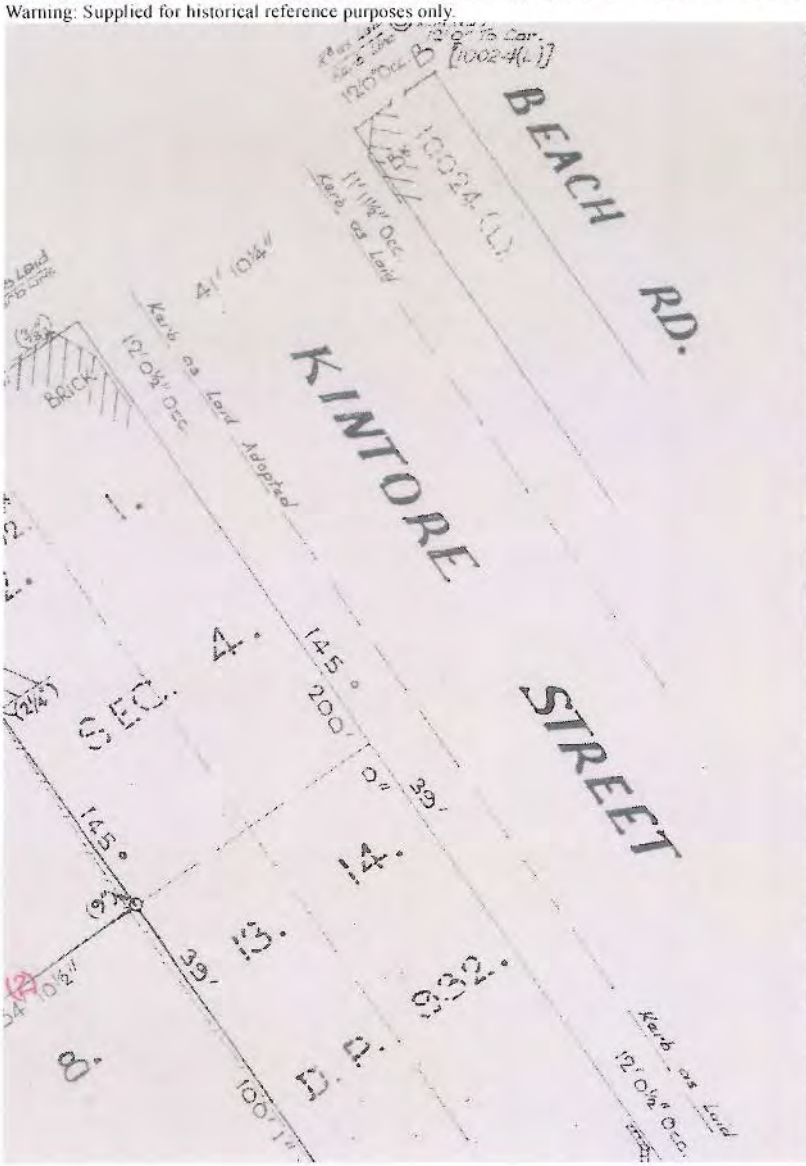
Copyright © Land and Property Information ABN: 84 104 377 806

This information is provided as a searching aid only. While every endeavour is made to ensure the current cadastral pattern is accurately reflected, the Registrar General cannot guarantee the information provided. For all ACTIVITY PRIOR to SEPT 2002 you must refer to the RGs Charting and Reference Maps.

Staff: Unknown /Doc: DP236603 (Deposited Plan-LTO Charting Maps) /Rev: 17 Sep 2007 /Prt: 21 Feb 2017 9:52 /Seq: 1 of 1 /Src: Pixel
Warning: Supplied for historical reference purposes only.



Staff: Unknown /Doc: DP236603 (Deposited Plan-LTO Charting Maps) /Rev: 17 Sep 2007 /Prt: 21 Feb 2017 9:55 /Seq: 1 of 1 /Src: Pixel
Warning: Supplied for historical reference purposes only.



D.P. 236603

Registered : 8/4/68

C.A.: 1183 of 3-6-1968

Title System : Torrens

Purpose : Subdivision

Ref. Map : Marrickville Sh 27

Last Plan : D.P. 932, D.P. 100373 Plan in C970000

PLAN OF SUBDIVISION LAND IN C/T.
VOL. 5203. FOL. 127 & 128.
VOL. 2765. FOL. 215.
VOL. 10575. FOL. 85.
VOL. 5771. FOL. 107.
VOL. 9929. FOL. 61 & 62.
VOL. 9694. FOL. 123.
Being Lots 9, 10, 11, 12, and Part Lot 6 of Section 4 D.P. 932, Lot 1 in DP 100373 and Lots A & B in plan in C970000

Scale : 30 feet to an inch

Mun. ~~Shire~~ ~~City~~ Marrickville

Locality: DULWICH HILL.

Parish: Petersham

County: Cumberland

I, Edwin Clive Banks.
of 115 Pitt Street SYDNEY.
a surveyor registered under the Surveyors Act, 1929, as amended, hereby certify that the survey represented in this plan

OFFICE USE ONLY.

(insert date of survey.)

(either (1) or (2))

APPENDIX E – SAFEWORK NSW RECORDS

SafeWork NSW
92-100 Donnison Street, Gosford, NSW, 2250
Locked Bag 2906, Lisarow, NSW, 2252 |
Customer Service Centre 13 10 50
licensing@safework.nsw.gov.au | www.safework.nsw.gov.au

Our Ref: D16/690954
Your ref: David Yonge

24 October 2016

Attention: David Yonge
STS Environmental Pty Ltd
PO BOX 6989
Wetherill Park NSW 2164

Dear Mr Yonge,

RE SITE: 466-480 New Canterbury Rd & 26-40 Hercules St Dulwich Hill NSW

I refer to your site search request received by SafeWork NSW on 18 October 2016 requesting information on Storage of Hazardous Chemicals for the above site.

A search of the records held by SafeWork NSW has not located any records pertaining to the above mentioned premises.

For further information or if you have any questions, please call our Customer Service Centre on 13 10 50 or email licensing@safework.nsw.gov.au

Yours sincerely,

Brent Jones
Customer Service Officer
Customer Service Centre - Operations
SafeWork NSW

APPENDIX F – SOIL PROFILE AND SOIL SAMPLE LOG SHEETS

STS GeoEnvironmental Pty Ltd

GEOTECHNICAL LOG - NON CORE BOREHOLE

Client: Angus Developments Pty Ltd
Project: 466-480 New Canterbury Road, 26-28 and 34-38 Hercules Street, Dulwich Hill
Location: Refer to Drawing No. 17/0376/2

Project: 21192/7558C
Date : March 10, 2017
Logged: JK Checked By: ET

BOREHOLE NO.: BH 1

Sheet 1 of 1

WATER TABLE	SAMPLES	DEPTH (m)	DESCRIPTION OF DRILLED PRODUCT (Soil type, colour, grain size, plasticity, minor components, observations)	SYMBOL	CONSISTENCY (cohesive soils) or RELATIVE DENSITY (sands and gravels)	MOISTURE
			CONCRETE: (140 mm thick)			
	S1 @ 0.2 m		SILTY CLAY: dark brown, medium plasticity, occasional gravel PID = 1.0 ppm OLD TOPSOIL	CL		M
			SILTY CLAY: orange/brown, medium to high plasticity	CL/CH		M
		0.5	HAND AUGER DISCONTINUED AT 0.4 M ON SILTY CLAY			
		1.0				
		1.5				
		2.0				
		2.5				

D - disturbed sample
U - undisturbed tube sample
B - bulk sample
WT - level of water table or free water
N - Standard Penetration Test (SPT)
S - jar sample

Contractor: STS
Equipment: Hand Auger
Hole Diameter (mm): 100
Angle from Vertical (°):
Drill Bit: V/Spiral/Two Prong

NOTES: See explanation sheets for meaning of all descriptive terms and symbols

STS GeoEnvironmental Pty Ltd

GEOTECHNICAL LOG - NON CORE BOREHOLE

Client: Angus Developments Pty Ltd
Project: 466-480 New Canterbury Road, 26-28 and 34-38 Hercules Street, Dulwich Hill
Location: Refer to Drawing No. 17/0376/2

Project: 21192/7558C
Date : March 10, 2017
Logged: JK Checked By: ET

BOREHOLE NO.: BH 2

Sheet 1 of 1

WATER TABLE	SAMPLES	DEPTH (m)	DESCRIPTION OF DRILLED PRODUCT (Soil type, colour, grain size, plasticity, minor components, observations)	SYMBOL	CONSISTENCY (cohesive soils) or RELATIVE DENSITY (sands and gravels)	MOISTURE
			CONCRETE: 100 mm thick)			
	S2 @ 0.1 m		SILTY CLAY: orange brown/red brown, medium to high plasticity PID = 3.1 ppm	CL/CH		M
			HAND AUGER DISCONTINUED AT 0.3 M ON SILTY CLAY			
		0.5				
		1.0				
		1.5				
		2.0				
		2.5				

D - disturbed sample
U - undisturbed tube sample
B - bulk sample
WT - level of water table or free water
N - Standard Penetration Test (SPT)
S - jar sample

Contractor: STS
Equipment: Hand Auger
Hole Diameter (mm): 100
Angle from Vertical (°):
Drill Bit: V/Spiral/Two Prong

NOTES: See explanation sheets for meaning of all descriptive terms and symbols

STS GeoEnvironmental Pty Ltd

GEOTECHNICAL LOG - NON CORE BOREHOLE

Client: Angus Developments Pty Ltd
Project: 466-480 New Canterbury Road, 26-28 and 34-38 Hercules Street, Dulwich Hill
Location: Refer to Drawing No. 17/0376/2

Project: 21192/7558C
Date : March 10, 2017
Logged: JK Checked By: ET

BOREHOLE NO.: BH 3

Sheet 1 of 1

WATER TABLE	SAMPLES	DEPTH (m)	DESCRIPTION OF DRILLED PRODUCT (Soil type, colour, grain size, plasticity, minor components, observations)	SYMBOL	CONSISTENCY (cohesive soils) or RELATIVE DENSITY (sands and gravels)	MOISTURE
			CONCRETE: (130 mm thick)			
	S3, S4, S5 @ 0.2 m		GRAVELLY SILTY CLAY: dark brown with dark grey and orange brown, medium to high plasticity, some gravel FILL PID = 1.6 ppm	CL/CH		M
	S6 @ 0.3 m		SILTY SANDY CLAY: dark grey/black, fine grained, low plasticity PID = 1.3 ppm	CL		M-VM
		0.5	FILL			
	S7 @ 0.5 m		SILTY CLAY: orange brown, medium to high plasticity, trace of gravel	CL/CH		M
			HAND AUGER DISCONTINUED AT 0.7 M ON SILTY CLAY			
		1.0				
		1.5				
		2.0				
		2.5				

D - disturbed sample
U - undisturbed tube sample
B - bulk sample
WT - level of water table or free water
N - Standard Penetration Test (SPT)
S - jar sample

Contractor: STS
Equipment: Hand Auger
Hole Diameter (mm): 100
Angle from Vertical (°):
Drill Bit: V/Spiral/Two Prong

NOTES: See explanation sheets for meaning of all descriptive terms and symbols

STS GeoEnvironmental Pty Ltd

GEOTECHNICAL LOG - NON CORE BOREHOLE

Client: Angus Developments Pty Ltd
Project: 466-480 New Canterbury Road, 26-28 and 34-38 Hercules Street, Dulwich Hill
Location: Refer to Drawing No. 17/0376/2

Project: 21192/7558C
Date : March 10, 2017
Logged: JK Checked By: ET

BOREHOLE NO.: BH 4

Sheet 1 of 1

WATER TABLE	SAMPLES	DEPTH (m)	DESCRIPTION OF DRILLED PRODUCT (Soil type, colour, grain size, plasticity, minor components, observations)	SYMBOL	CONSISTENCY (cohesive soils) or RELATIVE DENSITY (sands and gravels)	MOISTURE
			CONCRETE: (50 mm thick)			
	S8 @ 0.1 m		GRAVELLY SILTY CLAY: dark brown with dark grey, light grey and orange brown, medium plasticity, some gravel/concrete PID = 1.3 ppm	CL		M
			FILL			
	S9 @ 0.4 m	0.5	SILTY CLAY: light brown/orange brown, medium to high plasticity	CL/CH		M
			HAND AUGER DISCONTINUED AT 0.6 M ON SILTY CLAY			
		1.0				
		1.5				
		2.0				
		2.5				

D - disturbed sample
U - undisturbed tube sample
B - bulk sample
WT - level of water table or free water
N - Standard Penetration Test (SPT)
S - jar sample

Contractor: STS
Equipment: Hand Auger/Crow Bar
Hole Diameter (mm): 100
Angle from Vertical (°):
Drill Bit: V/Spiral/Two Prong

NOTES: See explanation sheets for meaning of all descriptive terms and symbols

STS GeoEnvironmental Pty Ltd

GEOTECHNICAL LOG - NON CORE BOREHOLE

Client: Angus Developments Pty Ltd Project: 466-480 New Canterbury Road, 26-28 and 34-38 Hercules Street, Dulwich Hill Location: Refer to Drawing No. 17/0376/2	Project: 21192/7558C Date : March 10, 2017 Logged: JK Checked By: ET	**BOREHOLE NO.: BH 5** Sheet 1 of 1

WATER TABLE	SAMPLES	DEPTH (m)	DESCRIPTION OF DRILLED PRODUCT (Soil type, colour, grain size, plasticity, minor components, observations)	SYMBOL	CONSISTENCY (cohesive soils) or RELATIVE DENSITY (sands and gravels)	MOISTURE
			CONCRETE: (110 mm thick)			
	S10 @ 0.1 m		GRAVELLY CLAYEY SAND: dark grey, fine to medium grained, some gravel (brick/glass) PID = 0.6 ppm FILL	SC		M
			HAND AUGER REFUSAL AT 0.3 M ON CONCRETE			
		0.5				
		1.0				
		1.5				
		2.0				
		2.5				

D - disturbed sample U - undisturbed tube sample B - bulk sample
WT - level of water table or free water N - Standard Penetration Test (SPT)
S - jar sample

Contractor: STS
Equipment: Hand Auger/Crow Bar
Hole Diameter (mm): 100
Angle from Vertical (°):
Drill Bit: V/Spiral/Two Prong

NOTES: See explanation sheets for meaning of all descriptive terms and symbols

STS GeoEnvironmental Pty Ltd

GEOTECHNICAL LOG - NON CORE BOREHOLE

Client: Angus Developments Pty Ltd
Project: 466-480 New Canterbury Road, 26-28 and 34-38 Hercules Street, Dulwich Hill
Location: Refer to Drawing No. 17/0376/2

Project: 21192/7558C
Date : March 10, 2017
Logged: JK Checked By: ET

BOREHOLE NO.: BH 6

Sheet 1 of 1

WATER TABLE	SAMPLES	DEPTH (m)	DESCRIPTION OF DRILLED PRODUCT (Soil type, colour, grain size, plasticity, minor components, observations)	SYMBOL	CONSISTENCY (cohesive soils) or RELATIVE DENSITY (sands and gravels)	MOISTURE
			CONCRETE: (110 mm thick)			
	S11 @ 0.2 m		GRAVELLY CLAYEY SAND: dark brown with orange brown, fine to medium grained, some gravel, (sandstone/glass/ash/brick/copper pipe) PID = 0.7 ppm	SC		M
	S12 @ 0.6 m	0.5	PID = 1.9 ppm			
		1.0	FILL			
	S13 @ 1.0 m		SILTY CLAY: light grey with red brown, medium to high plasticity, occasional gravel PID = 1.4 ppm	CL/CH		M
		1.5	BOREHOLE DISCONTINUED AT 1.5 M ON SILTY CLAY			
		2.0				
		2.5				

D - disturbed sample
U - undisturbed tube sample
B - bulk sample
WT - level of water table or free water
N - Standard Penetration Test (SPT)
S - jar sample

Contractor: STS
Equipment: Mini Christie
Hole Diameter (mm): 100
Angle from Vertical (°):
Drill Bit: V/Spiral/Two Prong

NOTES: See explanation sheets for meaning of all descriptive terms and symbols

APPENDIX G – CHAIN OF CUSTODY DOCUMENTATION

ALS Environmental

SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **ES1706075**

Client	: **SMEC TESTING SERVICES PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR EDWIN TRUJILLO	Contact	: Customer Services ES
Address	: P O BOX 6989 WETHERILL PARK NSW, AUSTRALIA 2164	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
E-mail	: etrujillo@stsgeo.com.au	E-mail	: ALSEnviro.Sydney@alsglobal.com
Telephone	: ----	Telephone	: +61-2-8784 8555
Facsimile	: ----	Facsimile	: +61-2-8784 8500
Project	: 21192/7558C	Page	: 1 of 3
Order number	: E-2017-132	Quote number	: ES2016SMETES0001 (SYBQ/234/16)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: ----		
Sampler	:		

Dates

Date Samples Received	: 14-Mar-2017 20:50	Issue Date	: 15-Mar-2017
Client Requested Due Date	: 21-Mar-2017	Scheduled Reporting Date	: **21-Mar-2017**

Delivery Details

Mode of Delivery	: Undefined	Security Seal	: Not intact.
No. of coolers/boxes	: 1	Temperature	: 16.1'C
Receipt Detail	:	No. of samples received / analysed	: 14 / 14

General Comments

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- S5: will be forwarded to ALS Brisbane
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**
- **Asbestos analysis will be conducted by ALS Newcastle.**
- Please direct any queries you have regarding this work order to the above ALS laboratory contact.
- Analytical work for this work order will be conducted at ALS Sydney.
- Sample Disposal - Aqueous (14 days), Solid (60 days) from date of completion of work order.

Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

Method Client sample ID	Sample Container Received	Preferred Sample Container for Analysis
Asbestos Classification and Quantitation per NEPM 2013 : EA200N		
S1	- Snap Lock Bag	- Snap Lock Bag: Separate bag received
S2	- Snap Lock Bag	- Snap Lock Bag: Separate bag received
S3	- Snap Lock Bag	- Snap Lock Bag: Separate bag received
S8	- Snap Lock Bag	- Snap Lock Bag: Separate bag received
S10	- Snap Lock Bag	- Snap Lock Bag: Separate bag received
S12	- Snap Lock Bag	- Snap Lock Bag: Separate bag received

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.

If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: **SOIL**

Laboratory sample ID	Client sampling date / time	Client sample ID	SOIL - EA055-103 Moisture Content	SOIL - EA200N Asbestos in Soils - (<1kg samples ONLY)	SOIL - EP074 (solids) Volatile Organic Compounds	SOIL - S-02 8 Metals (incl. Digestion)	SOIL - S-05 TRH/BTEXN/8 Metals	SOIL - S-12 OC/OP Pesticides	SOIL - S-19 TRH/BTEXN/P/Ph/OC/OP/PCB/8 metals
ES1706075-001	[10-Mar-2017]	S1	✓	✓			✓	✓	
ES1706075-002	[10-Mar-2017]	S2	✓	✓	✓	✓	✓	✓	
ES1706075-003	[10-Mar-2017]	S3	✓	✓				✓	
ES1706075-004	[10-Mar-2017]	S4	✓				✓		
ES1706075-005	[10-Mar-2017]	S6	✓		✓				✓
ES1706075-006	[10-Mar-2017]	S7	✓			✓		✓	
ES1706075-007	[10-Mar-2017]	S8	✓	✓		✓		✓	
ES1706075-008	[10-Mar-2017]	S9	✓			✓		✓	
ES1706075-009	[10-Mar-2017]	S10	✓	✓				✓	
ES1706075-010	[10-Mar-2017]	S11	✓			✓		✓	
ES1706075-011	[10-Mar-2017]	S12	✓	✓	✓				✓
ES1706075-012	[10-Mar-2017]	S13	✓			✓		✓	
ES1706075-014	[10-Mar-2017]	TB01	✓						

Matrix: **SOIL**

Laboratory sample ID	Client sampling date / time	Client sample ID	SOIL - S-07 TRH/BTEXN/PAH (SIM)	SOIL - S-18 (NO MOIST) TRH(C6-C9)/BTEXN with No Moisture for TBs
ES1706075-009	[10-Mar-2017]	S10	✓	
ES1706075-014	[10-Mar-2017]	TB01		✓

Matrix: **WATER**

Laboratory sample ID	*Client sampling date / time*	*Client sample ID*	WATER - W-05 TRH/BTEXN/8 Metals
ES1706075-013	[10-Mar-2017]	RB01	✓

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

EDWIN TRUJILLO

- *AU Certificate of Analysis - NATA (COA)	Email	etrujillo@stsgeo.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	etrujillo@stsgeo.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	etrujillo@stsgeo.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	etrujillo@stsgeo.com.au
- Chain of Custody (CoC) (COC)	Email	etrujillo@stsgeo.com.au
- EDI Format - ENMRG (ENMRG)	Email	etrujillo@stsgeo.com.au
- EDI Format - ESDAT (ESDAT)	Email	etrujillo@stsgeo.com.au

INVOICES (ACCOUNTS)

- A4 - AU Tax Invoice (INV)	Email	accounts@smectesting.com.au

SMEC TESTING ALL RESULTS

- *AU Certificate of Analysis - NATA (COA)	Email	enquiries@smectesting.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	enquiries@smectesting.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	enquiries@smectesting.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	enquiries@smectesting.com.au
- A4 - AU Tax Invoice (INV)	Email	enquiries@smectesting.com.au
- Chain of Custody (CoC) (COC)	Email	enquiries@smectesting.com.au
- EDI Format - ENMRG (ENMRG)	Email	enquiries@smectesting.com.au
- EDI Format - ESDAT (ESDAT)	Email	enquiries@smectesting.com.au

CHAIN OF CUSTODY RECORD

STS GeoEnvironmental Pty Ltd
PO Box 6989 (postal)
14/1 Cowpasture Place (office), Wetherill Park NSW 2164
Telephone: (02) 9756 2166 Fax: (02) 9756 1137
E-Mail: etrujillo@stsgeo.com.au Contact: Edwin Trujillo

Job No: 21192/7558C Order No: E-2017-132

STS GeoEnvironmental
Geotechnical and Environmental Solutions

Laboratory: ALS Laboratory Group - Sydney Environmental Division
277-289 Woodpark Road, SMITHFIELD NSW 2164
Telephone: (02) 8784 8555 Fax: (02) 8784 8500 Contact: Jacob Waugh

Environmental Division Sydney
Work Order Reference
ES1706075
Telephone : +61-2-8784 8555

ANALYSIS

Laboratory number	Sample number	jar/ bottle	bag	Date sampled	Composite number	Sample type	Comments	S19	S-18	S-12	S-7	S-5	W-5	S-2	VOC Scan	NEPM Asbestos
1	S1	1	1	10-March-2017		soil				X		X				X
2	S2	1	1	10-March-2017		soil				X				X	X	X
3	S3	1	1	10-March-2017		soil				X		X				X
4	S4	1	-	10-March-2017		soil						X				
—	S5	1	-	10-March-2017		soil	Please forward to ALS Brisbane					X				
5	S6	1	1	10-March-2017		soil		X							X	
6	S7	1	-	10-March-2017		soil				X				X		
7	S8	1	1	10-March-2017		soil				X				X		X
8	S9	1	-	10-March-2017		soil				X				X		
9	S10	1	1	10-March-2017		soil				X	X					X
10	S11	1	1	10-March-2017		soil				X				X		
11	S12	1	1	10-March-2017		soil		X							X	X
12	S13	1	1	10-March-2017		soil				X				X		
13	RB01	4	-	10-March-2017		water							X			
14	TB01	1	-	10-March-2017		soil			X							
TOTAL		18	9					2	1	9	1	4	1	6	3	7

Released by STS GeoEnvironmental
EdwinTrujillo
Signed:
Date: 14-Mar-17
Time: 6:00 PM

Received by: Frank
Signed:
Date: 14.3-17
Time: 1850

CoC Number: 21192 - COC1
Your quotation: STS Geo 2016 (SYBQ/234/16)
Preliminary results by: Tuesday 21 March 2017
Final results by: Tuesday 21 March 2017

ALS ALS / Ashes fwd 22/3

Comments:

Standard Detection Limits Apply, Standard Turnaround Required on Results

PLEASE FORWARD S5 TO ALS BRISBANE

Date:
Date:
Sheet:

ALS Environmental

SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **EB1705237**

Client	: **SMEC TESTING SERVICES PTY LTD**	Laboratory	: Environmental Division Brisbane
Contact	: MR EDWIN TRUJILLO	Contact	: Customer Services EB
Address	: P O BOX 6989 WETHERILL PARK NSW, AUSTRALIA 2164	Address	: 2 Byth Street Stafford QLD Australia 4053
E-mail	: etrujillo@stsgeo.com.au	E-mail	: ALSEnviro.Brisbane@alsglobal.com
Telephone	: ----	Telephone	: +61-7-3243 7222
Facsimile	: ----	Facsimile	: +61-7-3243 7218
Project	: 21192/7558C	Page	: 1 of 2
Order number	: E-2017-132	Quote number	: ES2016SMETES0001 (SYBQ/234/16)
C-O-C number	: 21192 - COC1	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: ----		
Sampler	:		

Dates

Date Samples Received	: 17-Mar-2017 09:35	Issue Date	: 17-Mar-2017
Client Requested Due Date	: 21-Mar-2017	Scheduled Reporting Date	: **21-Mar-2017**

Delivery Details

Mode of Delivery	: Carrier	Security Seal	: Intact.
No. of coolers/boxes	: 1	Temperature	: 2.6°C - Ice present
Receipt Detail	: MEDIUM ESKY	No. of samples received / analysed	: 1 / 1

General Comments

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- Discounted Package Prices apply only when specific ALS Group Codes ('W', 'S', 'NT' suites) are referenced on COCs.
- Please direct any turn around / technical queries to the laboratory contact designated above.
- Sample Disposal - Aqueous (14 days), Solid (60 days) from date of completion of work order.
- Analysis will be conducted by ALS Environmental, Brisbane, NATA accreditation no. 825, Site No. 818 (Micro site no. 18958).
- **Breaches in recommended extraction / analysis holding times (if any) are displayed overleaf in the Proactive Holding Time Report table.**

Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- **No sample container / preservation non-compliance exists.**

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.
If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: **SOIL**

Laboratory sample ID	Client sampling date / time	Client sample ID	SOIL - EA055-103 Moisture Content	SOIL - S-05 TRH/BTEXN/8 Metals
EB1705237-001	[10-Mar-2017]	S5	✓	✓

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

EDWIN TRUJILLO

- *AU Certificate of Analysis - NATA (COA)	Email	etrujillo@stsgeo.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	etrujillo@stsgeo.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	etrujillo@stsgeo.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	etrujillo@stsgeo.com.au
- A4 - AU Tax Invoice (INV)	Email	etrujillo@stsgeo.com.au
- Chain of Custody (CoC) (COC)	Email	etrujillo@stsgeo.com.au
- EDI Format - ENMRG (ENMRG)	Email	etrujillo@stsgeo.com.au
- EDI Format - ESDAT (ESDAT)	Email	etrujillo@stsgeo.com.au

INVOICES (ACCOUNTS)

- A4 - AU Tax Invoice (INV)	Email	accounts@smectesting.com.au

SMEC TESTING ALL RESULTS

- *AU Certificate of Analysis - NATA (COA)	Email	enquiries@smectesting.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	enquiries@smectesting.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	enquiries@smectesting.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	enquiries@smectesting.com.au
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- EDI Format - ESDAT (ESDAT)	Email	enquiries@smectesting.com.au

CHAIN OF CUSTODY RECORD

STS GeoEnvironmental Pty Ltd
PO Box 6989 (postal)
14/1 Cowpasture Place (office), Wetherill Park NSW 2164
Telephone: (02) 9756 2166 Fax: (02) 9756 1137
E-Mail: etrujillo@stsgeo.com.au Contact: Edwin Trujillo

Job No: 21192/7558C Order No: E-2017-132

STS GeoEnvironmental
Geotechnical and Environmental Solutions

Laboratory: ALS Laboratory Group - Sydney Environmental Division
277-289 Woodpark Road, SMITHFIELD NSW 2164
Telephone: (02) 8784 8555 Fax: (02) 8784 8500 Contact: Jacob Waugh

Environmental Division
Brisbane
Work Order Reference
EB1705237

Telephone : +61-7-3243 7222

ANALYSIS

Laboratory number	Sample number	jar/ bottle	bag	Date sampled	Composite number	Sample type	Comments	S19	S-18	S-12	S-7	S-5	W-5	S-2	VOC Scan	NEPM Asbestos
1	S1	1	1	10-March-2017		soil				X		X				X
2	S2	1	1	10-March-2017		soil				X				X	X	X
3	S3	1	1	10-March-2017		soil				X		X				X
4	S4	1	-	10-March-2017		soil						X				
1 —	S5	1	-	10-March-2017		soil	**Please forward to ALS Brisbane**					X				
5	S6	1	1	10-March-2017		soil		X							X	
6	S7	1	-	10-March-2017		soil				X				X		
7	S8	1	1	10-March-2017		soil				X				X		X
8	S9	1	-	10-March-2017		soil				X				X		
9	S10	1	1	10-March-2017		soil				X	X					X
10	S11	1	1	10-March-2017		soil				X				X		
11	S12	1	1	10-March-2017		soil		X							X	X
12	S13	1	1	10-March-2017		soil				X				X		
13	RB01	4	-	10-March-2017		water							X			
14	TB01	1	-	10-March-2017		soil			X							
TOTAL		18	9*					2	1	9	1	4	1	6	3	7

Released by STS GeoEnvironmental EdwinTrujillo Signed:	Date: 14-Mar-17	Time: 6:00 PM
Received by: Frank Signed:	Date: 14.3-17	Time: 1850

CoC Number: 21192 - COC1

Your quotation: STS Geo 2016 (SYBQ/234/16)

Preliminary results by: Tuesday 21 March 2017

Final results by: Tuesday 21 March 2017

Comments:

Standard Detection Limits Apply, Standard Turnaround Required on Results

PLEASE FORWARD S5 TO ALS BRISBANE

ALS NC / Ashes
FWD RS

ALS Environmental

SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **ES1706075**
Amendment : **1**

Client	: **SMEC TESTING SERVICES PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR EDWIN TRUJILLO	Contact	: Customer Services ES
Address	: P O BOX 6989 WETHERILL PARK NSW, AUSTRALIA 2164	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
E-mail	: etrujillo@stsgeo.com.au	E-mail	: ALSEnviro.Sydney@alsglobal.com
Telephone	: ----	Telephone	: +61-2-8784 8555
Facsimile	: ----	Facsimile	: +61-2-8784 8500
Project	: 21192/7558C	Page	: 1 of 3
Order number	: E-2017-132	Quote number	: ES2016SMETES0001 (SYBQ/234/16)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: ----		
Sampler	:		

Dates

Date Samples Received	: 14-Mar-2017 20:50	Issue Date	: 09-May-2017
Client Requested Due Date	: 10-May-2017	Scheduled Reporting Date	: **10-May-2017**

Delivery Details

Mode of Delivery	: Undefined	Security Seal	: Not intact.
No. of coolers/boxes	: 1	Temperature	: 16.1'C
Receipt Detail	:	No. of samples received / analysed	: 14 / 14

General Comments

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- S5: will be forwarded to ALS Brisbane
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**
- **Asbestos analysis will be conducted by ALS Newcastle.**
- Please direct any queries you have regarding this work order to the above ALS laboratory contact.
- Analytical work for this work order will be conducted at ALS Sydney.
- Sample Disposal - Aqueous (14 days), Solid (60 days) from date of completion of work order.

Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

Method Client sample ID	Sample Container Received	Preferred Sample Container for Analysis
Asbestos Classification and Quantitation per NEPM 2013 : EA200N		
S1	- Snap Lock Bag	- Snap Lock Bag: Separate bag received
S2	- Snap Lock Bag	- Snap Lock Bag: Separate bag received
S3	- Snap Lock Bag	- Snap Lock Bag: Separate bag received
S8	- Snap Lock Bag	- Snap Lock Bag: Separate bag received
S10	- Snap Lock Bag	- Snap Lock Bag: Separate bag received
S12	- Snap Lock Bag	- Snap Lock Bag: Separate bag received

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.
If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: **SOIL**

Laboratory sample ID	Client sampling date / time	Client sample ID	SOIL - EA055-103 Moisture Content	SOIL - EA200N Asbestos in Soils - (<1kg samples ONLY)	SOIL - EP074 (solids) Volatile Organic Compounds	SOIL - S-02 8 Metals (incl. Digestion)	SOIL - S-05 TRH/BTEXN/8 Metals	SOIL - S-12 OC/OP Pesticides	SOIL - S-19 TRH/BTEXN/P/Ph/OC/OP/PCB/8 metals
ES1706075-001	[10-Mar-2017]	S1	✓	✓			✓	✓	
ES1706075-002	[10-Mar-2017]	S2	✓	✓	✓	✓	✓	✓	
ES1706075-003	[10-Mar-2017]	S3	✓	✓			✓	✓	
ES1706075-004	[10-Mar-2017]	S4	✓				✓		
ES1706075-005	[10-Mar-2017]	S6	✓		✓				✓
ES1706075-006	[10-Mar-2017]	S7	✓			✓		✓	
ES1706075-007	[10-Mar-2017]	S8	✓	✓		✓		✓	
ES1706075-008	[10-Mar-2017]	S9	✓			✓		✓	
ES1706075-009	[10-Mar-2017]	S10	✓	✓				✓	
ES1706075-010	[10-Mar-2017]	S11	✓			✓		✓	
ES1706075-011	[10-Mar-2017]	S12	✓	✓	✓				✓
ES1706075-012	[10-Mar-2017]	S13	✓			✓		✓	
ES1706075-014	[10-Mar-2017]	TB01	✓						

Matrix: **SOIL**

Laboratory sample ID	Client sampling date / time	Client sample ID	SOIL - S-07 TRH/BTEXN/PAH (SIM)	SOIL - S-18 (NO MOIST) TRH(C6-C9)/BTEXN with No Moisture for TBs
ES1706075-009	[10-Mar-2017]	S10	✓	
ES1706075-014	[10-Mar-2017]	TB01		✓

Matrix: **WATER**

Laboratory sample ID	*Client sampling date / time*	*Client sample ID*	WATER - W-05 TRH/BTEXN/8 Metals
ES1706075-013	[10-Mar-2017]	RB01	✓

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

EDWIN TRUJILLO

- *AU Certificate of Analysis - NATA (COA)	Email	etrujillo@stsgeo.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	etrujillo@stsgeo.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	etrujillo@stsgeo.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	etrujillo@stsgeo.com.au
- Chain of Custody (CoC) (COC)	Email	etrujillo@stsgeo.com.au
- EDI Format - ENMRG (ENMRG)	Email	etrujillo@stsgeo.com.au
- EDI Format - ESDAT (ESDAT)	Email	etrujillo@stsgeo.com.au

INVOICES (ACCOUNTS)

- A4 - AU Tax Invoice (INV)	Email	accounts@smectesting.com.au

SMEC TESTING ALL RESULTS

- *AU Certificate of Analysis - NATA (COA)	Email	enquiries@smectesting.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	enquiries@smectesting.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	enquiries@smectesting.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	enquiries@smectesting.com.au
- A4 - AU Tax Invoice (INV)	Email	enquiries@smectesting.com.au
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- EDI Format - ENMRG (ENMRG)	Email	enquiries@smectesting.com.au
- EDI Format - ESDAT (ESDAT)	Email	enquiries@smectesting.com.au

CHAIN OF CUSTODY RECORD

STS GeoEnvironmental Pty Ltd
PO Box 6989 (postal)
14/1 Cowpasture Place (office), Wetherill Park NSW 2164
Telephone: (02) 9756 2166 Fax: (02) 9756 1137
E-Mail: etrujillo@stsgeo.com.au Contact: Edwin Trujillo

Job No: 21192/7558C Order No: E-2017-132

STS GeoEnvironmental
Geotechnical and Environmental Solutions

Laboratory: ALS Laboratory Group - Sydney Environmental Division
277-289 Woodpark Road, SMITHFIELD NSW 2164
Telephone: (02) 8784 8555 Fax: (02) 8784 8500 Contact: Jacob Waugh

Environmental Division Sydney
Work Order Reference
ES1706075
Telephone : +61-2-8784 8555

ANALYSIS

Laboratory number	Sample number	jar/ bottle	bag	Date sampled	Composite number	Sample type	Comments	S19	S-18	S-12	S-7	S-5	W-5	S-2	VOC Scan	NEPM Asbestos
1	S1	1	1	10-March-2017		soil				X		X				X
2	S2	1	1	10-March-2017		soil				X				X	X	X
3	S3	1	1	10-March-2017		soil				X		X				X
4	S4	1	-	10-March-2017		soil						X				
—	S5	1	-	10-March-2017		soil	Please forward to ALS Brisbane					X				
5	S6	1	1	10-March-2017		soil		X							X	
6	S7	1	-	10-March-2017		soil				X				X		
7	S8	1	1	10-March-2017		soil				X				X		X
8	S9	1	-	10-March-2017		soil				X				X		
9	S10	1	1	10-March-2017		soil				X	X					X
10	S11	1	1	10-March-2017		soil				X				X		
11	S12	1	1	10-March-2017		soil		X							X	X
12	S13	1	1	10-March-2017		soil				X				X		
13	RB01	4	-	10-March-2017		water							X			
14	TB01	1	-	10-March-2017		soil			X							
TOTAL		18	9					2	1	9	1	4	1	6	3	7

Released by STS GeoEnvironmental
EdwinTrujillo
Signed:
Date: 14-Mar-17
Time: 6:00 PM

Received by: Frank
Signed:
Date: 14.3-17
Time: 1850

CoC Number: 21192 - COC1
Your quotation: STS Geo 2016 (SYBQ/234/16)
Preliminary results by: Tuesday 21 March 2017
Final results by: Tuesday 21 March 2017

ALS ALS / Ashes fwd 22/3

Comments:

Standard Detection Limits Apply, Standard Turnaround Required on Results

PLEASE FORWARD S5 TO ALS BRISBANE

Date:
Date:
Sheet:

ALS Environmental

SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **ES1711337**

Client	: **SMEC TESTING SERVICES PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR EDWIN TRUJILLO	Contact	: Customer Services ES
Address	: P O BOX 6989 WETHERILL PARK NSW, AUSTRALIA 2164	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
E-mail	: etrujillo@stsgeo.com.au	E-mail	: ALSEnviro.Sydney@alsglobal.com
Telephone	: ----	Telephone	: +61-2-8784 8555
Facsimile	: ----	Facsimile	: +61-2-8784 8500
Project	: 21192/7558C	Page	: 1 of 2
Order number	: E-2017-132	Quote number	: ES2016SMETES0001 (SYBQ/234/16)
C-O-C number	: 21192 - COC1	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: ----		
Sampler	:		

Dates

Date Samples Received	: 11-May-2017 16:30	Issue Date	: 11-May-2017
Client Requested Due Date	: 15-May-2017	Scheduled Reporting Date	: **15-May-2017**

Delivery Details

Mode of Delivery	: Undefined	Security Seal	: Not Available
No. of coolers/boxes	: ----	Temperature	: 4'C
Receipt Detail	:	No. of samples received / analysed	: 1 / 1

General Comments

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- **This is a rebatch of ES1706075**
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**
- Please direct any queries you have regarding this work order to the above ALS laboratory contact.
- Analytical work for this work order will be conducted at ALS Sydney.
- Sample Disposal - Aqueous (14 days), Solid (60 days) from date of completion of work order.

Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- **No sample container / preservation non-compliance exists.**

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.
If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: **SOIL**

Laboratory sample ID	Client sampling date / time	Client sample ID	SOIL - EG005C Leachable Metals by ICPAES	SOIL - TCLP TCLP Leach
ES1711337-001	[10-May-2017]	S3	✓	✓

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

EDWIN TRUJILLO

- *AU Certificate of Analysis - NATA (COA)	Email	etrujillo@stsgeo.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	etrujillo@stsgeo.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	etrujillo@stsgeo.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	etrujillo@stsgeo.com.au
- Chain of Custody (CoC) (COC)	Email	etrujillo@stsgeo.com.au
- EDI Format - ENMRG (ENMRG)	Email	etrujillo@stsgeo.com.au
- EDI Format - ESDAT (ESDAT)	Email	etrujillo@stsgeo.com.au

INVOICES (ACCOUNTS)

- A4 - AU Tax Invoice (INV)	Email	accounts@smectesting.com.au

SMEC TESTING ALL RESULTS

- *AU Certificate of Analysis - NATA (COA)	Email	enquiries@smectesting.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	enquiries@smectesting.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	enquiries@smectesting.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	enquiries@smectesting.com.au
- A4 - AU Tax Invoice (INV)	Email	enquiries@smectesting.com.au
- Chain of Custody (CoC) (COC)	Email	enquiries@smectesting.com.au
- EDI Format - ENMRG (ENMRG)	Email	enquiries@smectesting.com.au
- EDI Format - ESDAT (ESDAT)	Email	enquiries@smectesting.com.au

Saman
11/05/17

Saman Taeidi

3458-459

From: Saman Taeidi
Sent: Thursday, 11 May 2017 4:29 PM
To: Frank Ferraro
Cc: Franco Lentini
Subject: FW: RESULTS & EDD for ALS Workorder : ES1706075 | Your Reference: 21192/7558C - URGENT

Hi Frank,

Can you please rebatch ES1706075-003 for TCLP Lead, due for reporting on 15/05. Approved by Franco.

Kind Regards,

Saman Taeidi
Sample Administration Coordinator, Environmental
Sydney

T +61 2 8784 8555 D +61 2 8784 8504
F +61 2 8784 8500
saman.taeidi@alsglobal.com
277-289 Woodpark Road
Smithfield NSW 2164
AUSTRALIA

TAT

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New ALS office at Crows Nest is now open to receive samples!

Environmental Division
Sydney
Work Order Reference
ES1711337

Telephone : + 61-2-8784 8555

From: Edwin Trujillo [mailto:etrujillo@stsgeo.com.au]
Sent: Thursday, 11 May 2017 3:16 PM
To: Saman Taeidi <Saman.Taeidi@alsglobal.com>
Cc: David Yonge <dyonge@stsgeo.com.au>
Subject: RE: RESULTS & EDD for ALS Workorder : ES1706075 | Your Reference: 21192/7558C - URGENT

Hi Saman,

As discussed, we would like to commission some further analyses on another sample currently held in custody by ALS under this same batch code ES1706075.

It would be much appreciated if you could arrange for the results of the analyses outlined in the table below to be reported in conjunction with the ones previously requested for samples S1, S6 and S8.

Sample No.	Required Analyses
S3	TCLP lead

ALS Environmental

SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **EM1705969**

Client	: **SMEC TESTING SERVICES PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: MR EDWIN TRUJILLO	Contact	:
Address	: P O BOX 6989 WETHERILL PARK NSW, AUSTRALIA 2164	Address	: 4 Westall Rd Springvale VIC Australia 3171
E-mail	: etrujillo@stsgeo.com.au	E-mail	:
Telephone	: ----	Telephone	: +61-3-8549 9600
Facsimile	: ----	Facsimile	: +61-3-8549 9601
Project	: 21192/7558C	Page	: 1 of 2
Order number	: E-2017-132	Quote number	: ES2016SMETES0001 (SYBQ/234/16)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: ----		
Sampler	:		

Dates

Date Samples Received	: 12-May-2017 09:15	Issue Date	: 12-May-2017
Client Requested Due Date	: 15-May-2017	Scheduled Reporting Date	: **15-May-2017**

Delivery Details

Mode of Delivery	: Carrier	Security Seal	: Not Available
No. of coolers/boxes	: 1	Temperature	: 8.7°C - Ice present
Receipt Detail	:	No. of samples received / analysed	: 3 / 3

General Comments

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- **Please direct any queries related to sample condition / numbering / breakages to Client Services.**
- Sample Disposal - Aqueous (14 days), Solid (60 days) from date of completion of work order.
- **Analytical work for this work order will be conducted at ALS Springvale.**
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**
- **This is a rebatch of ES1706075.**

Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- **No sample container / preservation non-compliance exists.**

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.
If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: **SOIL**

Laboratory sample ID	Client sampling date / time	Client sample ID	SOIL - EG005C-EM Leachable Metals by ICPAES (Melbourne)	SOIL - EN33a TCLP Leachate
EM1705969-001	10-May-2017 00:00	S1	✓	✓
EM1705969-002	10-May-2017 00:00	S6	✓	✓
EM1705969-003	10-May-2017 00:00	S8	✓	✓

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

EDWIN TRUJILLO

- *AU Certificate of Analysis - NATA (COA)	Email	etrujillo@stsgeo.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	etrujillo@stsgeo.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	etrujillo@stsgeo.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	etrujillo@stsgeo.com.au
- Chain of Custody (CoC) (COC)	Email	etrujillo@stsgeo.com.au
- EDI Format - ENMRG (ENMRG)	Email	etrujillo@stsgeo.com.au
- EDI Format - ESDAT (ESDAT)	Email	etrujillo@stsgeo.com.au

INVOICES (ACCOUNTS)

- A4 - AU Tax Invoice (INV)	Email	accounts@smectesting.com.au

SMEC TESTING ALL RESULTS

- *AU Certificate of Analysis - NATA (COA)	Email	enquiries@smectesting.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	enquiries@smectesting.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	enquiries@smectesting.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	enquiries@smectesting.com.au
- A4 - AU Tax Invoice (INV)	Email	enquiries@smectesting.com.au
- Chain of Custody (CoC) (COC)	Email	enquiries@smectesting.com.au
- EDI Format - ENMRG (ENMRG)	Email	enquiries@smectesting.com.au
- EDI Format - ESDAT (ESDAT)	Email	enquiries@smectesting.com.au

S458-459 mells

Fadi Soro

10/5/17
10:30am

From: Saman Taeidi
Sent: Wednesday, 10 May 2017 8:48 AM
To: Fadi Soro
Subject: FW: Rebatch ES1706075

Hi Fadi,

Can you please rebatch as per below:
① ② ③
ES1706075-001, 005, 007 for TCLP Lead and send it to ALS Springvale for analysis on 2 day TAT (due for reporting on Monday 15/05/2017).

Please log it using the EM (Melbourne) tasks for metals.

Can you please let me know the batch number once it's done?

Kind Regards,

Saman Taeidi
Client Services, Environmental
Sydney

T +61 2 8784 8555 D +61 2 8784 8504
F +61 2 8784 8500
saman.taeidi@alsglobal.com
277-289 Woodpark Road
Smithfield NSW 2164
AUSTRALIA

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TAT

MS: 1554
SH 12/5

Environmental Division
Melbourne
Work Order Reference
EM1705969

Telephone : + 61-3-8549 9600

New ALS office at Crows Nest is now open to receive samples!

From: Edwin Trujillo [mailto:etrujillo@stsgeo.com.au]
Sent: Tuesday, 9 May 2017 8:29 PM
To: Saman Taeidi <Saman.Taeidi@alsglobal.com>
Cc: David Yonge <dyonge@stsgeo.com.au>
Subject: RE: RESULTS & EDD for ALS Workorder : ES1706075 | Your Reference: 21192/7558C - URGENT

Thanks Saman,

Please proceed!

Regards,

Edwin Trujillo / ***Environmental Engineer***
STS GeoEnvironmental Proprietary Limited.
PO Box 6989 ***(postal)***
14/1 Cowpasture Place ***(street)***
Wetherill Park NSW 2164
etrujillo@stsgeo.com.au | enquiries@stsgeo.com.au | www.stsgeo.com.au
T (02) 9756 2166 | **F** (02) 9756 1137

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From: Saman Taeidi [mailto:Saman.Taeidi@alsglobal.com]
Sent: Tuesday, 9 May 2017 4:29 PM
To: Edwin Trujillo <etrujillo@stsgeo.com.au>
Cc: David Yonge <dyonge@stsgeo.com.au>
Subject: RE: RESULTS & EDD for ALS Workorder : ES1706075 | Your Reference: 21192/7558C - URGENT

Hi Edwin,

Sorry about that. Monday the 15th is the only possible TAT we can offer at the moment.

Kind Regards,

Saman Taeidi
Client Services, Environmental
Sydney

T +61 2 8784 8555 D +61 2 8784 8504
F +61 2 8784 8500
saman.taeidi@alsglobal.com
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Smithfield NSW 2164
AUSTRALIA

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New ALS office at Crows Nest is now open to receive samples!

From: Edwin Trujillo [mailto:etrujillo@stsgeo.com.au]
Sent: Tuesday, 9 May 2017 4:22 PM
To: Saman Taeidi <Saman.Taeidi@alsglobal.com>

Cc: David Yonge <dyonge@stsgeo.com.au>
Subject: RE: RESULTS & EDD for ALS Workorder : ES1706075 | Your Reference: 21192/7558C - URGENT

Thanks for the update Saman,

I understand but we urgently need the results to complete the project report and submit to the client before Friday.

Please let me know if is there another option.

Regards,

Edwin Trujillo / ***Environmental Engineer***
STS GeoEnvironmental Proprietary Limited.
PO Box 6989 ***(postal)***
14/1 Cowpasture Place ***(street)***
Wetherill Park NSW 2164
etrujillo@stsgeo.com.au | enquiries@stsgeo.com.au | www.stsgeo.com.au
T (02) 9756 2166 | **F** (02) 9756 1137

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From: Saman Taeidi [mailto:Saman.Taeidi@alsglobal.com]
Sent: Tuesday, 9 May 2017 4:06 PM
To: Edwin Trujillo <etrujillo@stsgeo.com.au>
Cc: David Yonge <dyonge@stsgeo.com.au>
Subject: RE: RESULTS & EDD for ALS Workorder : ES1706075 | Your Reference: 21192/7558C - URGENT

Hi Edwin,

Sorry we are in full capacity for TCLP leach and we have to send the samples to ALS Melbourne.

If we dispatch tomorrow, they will get them on Thursday and will put it on 2 days TAT from receipt in the lab, scheduling to be reported on 15/05.

Could you please let me know if you are happy to go ahead with the above option?

Kind Regards,

Saman Taeidi
Client Services, Environmental
Sydney

T +61 2 8784 8555 D +61 2 8784 8504
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saman.taeidi@alsglobal.com
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AUSTRALIA

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New ALS office at Crows Nest is now open to receive samples!

From: Edwin Trujillo [mailto:etrujillo@stsgeo.com.au]
Sent: Tuesday, 9 May 2017 2:21 PM
To: Saman Taeidi <Saman.Taeidi@alsglobal.com>; David Yonge <dyonge@stsgeo.com.au>
Cc: ALSEnviro Sydney <ALSEnviro.Sydney@ALSGlobal.com>
Subject: RE: RESULTS & EDD for ALS Workorder : ES1706075 | Your Reference: 21192/7558C - URGENT

Hi Saman,

Thanks for your prompt response and assistance.

We would like to commission some further analyses on three (3) samples currently held in custody by ALS under this same batch code ES1706075.

It would be much appreciated if you could arrange for the analyses outlined in the table below to be performed on a one-day turnaround.

Sample No.	Required Analyses
S1	TCLP lead
S6	
S8	

Regards,

Edwin Trujillo / ***Environmental Engineer***
STS GeoEnvironmental Proprietary Limited.
PO Box 6989 ***(postal)***
14/1 Cowpasture Place ***(street)***
Wetherill Park NSW 2164
etrujillo@stsgeo.com.au | enquiries@stsgeo.com.au | www.stsgeo.com.au
T (02) 9756 2166 | **F** (02) 9756 1137

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ALS INTERNAL SUBCONTRACTING INFORMATION

Forward samples to (Circle): EB, EM, EN, EP, ES Other specify -

WO received ✓	WO committed ✓	Work order #	Sample Numbers	Sample date	ASBESTOS	PSD	FMT	TOTAL FLUORIDE	TPH SPECIATION	GLYCOLS	TBT	HALO ACETIC ACID	TOS	BIFENTHRIN	TOC	SPOCAS	ASS	PHFIELD PH FOX	TOTAL SULPHUR	ALGAE	SYNTHETIC PYRETHROIDS	GROSS ALPHA BETA	Soil Jar (Circle Frozen Wet Dry)	Soil Bag (Circle Frozen Wet Dry)	Glass Orange	Plastic Grey (PFOS & PFOA etc)	Light Green/Turquoise & White plastic (UT Nuts) Frozen F	Light Green/Turquoise & White plastic (UT Nuts) Frozen U	Maroon Vial - VOC	Misc vial	Purple Vial TOC	Purple Vial DOC	Metal Bottle CIRCLE Red / RG / ORC F	Metal Bottle CIRCLE Red / RG / ORC T	Maroon / White Label Plastic (Spec metals)	Natural Plastic Green	White Plastic Green* (Chl a)	Plastic Purple	Grey (micro)	Green White Plastic Lugols (Algae)	Glass Purple (O&G)	Blue Label	Other	Bottles Correct ✓
		m- mcll																																									
	✓	S817 06075	1,5,7	→	Please									as	a			Fm			WO	H	3																				

Relinquished by (initial):	FMDi	# of eskies sent;	Small		Received Y / N
Time/Date Sent:	10/5/17 5pm	# of eskies sent;	Medium		Received Y / N
Received by (initial):	Pu	Con Note & Company	AAE 2KA2000 1698	Committed By (initial):	
Time/Date Received:	12/5/17 9.15am	Temp on Receipt:		Date Committed:	

- Do not **OVER PACK** esky
- **Make sure all GLASS** is Bubble Wrapped
- **Keep Quarantine Samples Separate**
- **No Nitric Acid preserved by Air**

Comments:

Note*: Chlorophyll a should be analysed on the day of receipt at the receiving lab considering the 48hr Holding time

APPENDIX H – ANALYTICAL LABORATORY REPORTS

ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **ES1706075**	Page	: 1 of 23
Client	: **SMEC TESTING SERVICES PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR EDWIN TRUJILLO	Contact	: Customer Services ES
Address	: P O BOX 6989 WETHERILL PARK NSW, AUSTRALIA 2164	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: ----	Telephone	: +61-2-8784 8555
Project	: 21192/7558C	Date Samples Received	: 14-Mar-2017 20:50
Order number	: E-2017-132	Date Analysis Commenced	: 16-Mar-2017
C-O-C number	: ----	Issue Date	: 22-Mar-2017 11:12
Sampler	: ----		
Site	: ----		
Quote number	: SYBQ/234/16		
No. of samples received	: 14		
No. of samples analysed	: 14		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Descriptive Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Edwandy Fadjar	Organic Coordinator	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Sanjeshni Jyoti	Senior Chemist Volatiles	Sydney Organics, Smithfield, NSW
Shaun Spooner	Asbestos Identifier	Newcastle - Asbestos, Mayfield West, NSW
Wisam Marassa	Inorganics Coordinator	Sydney Inorganics, Smithfield, NSW

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- EP068: Positive results has been confirmed by re-extraction and re-analysis.
- EA200N: Asbestos weights and percentages are not covered under the Scope of NATA Accreditation.
  Weights of Asbestos are based on extracted bulk asbestos, fibre bundles, and/or ACM and do not include respirable fibres (if present)
  The Friable Asbestos weight is calculated from the extracted Fibrous Asbestos and Asbestos Fines as an equivalent weight of 100% Asbestos
  Percentages for Asbestos content in ACM are based on the 2013 NEPM default values.
  All calculations of percentage Asbestos under this method are approximate and should be used as a guide only.
- EA200 'Am' Amosite (brown asbestos)
- EA200 'Cr' Crocidolite (blue asbestos)
- EA200 'Trace' - Asbestos fibres ("Free Fibres") detected by trace analysis per AS4964. The result can be interpreted that the sample contains detectable 'respirable' asbestos fibres
- EA200: Asbestos Identification Samples were analysed by Polarised Light Microscopy including dispersion staining.
- EA200 Legend
- EA200 'Ch' Chrysotile (white asbestos)
- EA200: 'UMF' Unknown Mineral Fibres. "-" indicates fibres detected may or may not be asbestos fibres. Confirmation by alternative techniques is recommended.
- EA200: Negative results for vinyl tiles should be confirmed by an independent analytical technique.
- EA200N: ALS laboratory procedures and methods used for the identification and quantitation of asbestos are consistent with AS4964-2004 and the requirements of the 2013 NEPM for Assessment of Site Contamination
- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR.
  Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EA200: For samples larger than 30g, the <2mm fraction may be sub-sampled prior to trace analysis as outlined in ISO23909:2008(E) Sect 6.3.2-2
- EA200: 'Yes' - Asbestos detected by polarised light microscopy including dispersion staining.
- EA200: 'No*' - No asbestos found, at the reporting limit of 0.1g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at concentrations estimated to be below 0.1g/kg.
- EA200: 'No' - No asbestos found at the reporting limit 0.1g/kg, by polarised light microscopy including dispersion staining.

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S1	S2	S3	S4	S6
			Client sampling date / time	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]
Compound	CAS Number	LOR	Unit	ES1706075-001	ES1706075-002	ES1706075-003	ES1706075-004	ES1706075-005
				Result	Result	Result	Result	Result
EA055: Moisture Content								
Moisture Content (dried @ 103°C)	----	1	%	17.0	19.9	22.0	20.8	21.1
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	No	No	No	----	----
Asbestos Type	1332-21-4	-	--	-	-	-	----	----
Sample weight (dry)	----	0.01	g	230	172	181	----	----
APPROVED IDENTIFIER:	----	-	--	S.SPOONER	S.SPOONER	S.SPOONER	----	----
EA200N: Asbestos Quantification (non-NATA)								
ø Free Fibres	----	5	Fibres	No	No	No	----	----
ø Friable Asbestos	1332-21-4	0.0004	g	<0.0004	<0.0004	<0.0004	----	----
ø Friable Asbestos (as Asbestos in Soil)	1332-21-4	0.001	% (w/w)	<0.001	<0.001	<0.001	----	----
ø Asbestos Containing Material	1332-21-4	0.1	g	<0.1	<0.1	<0.1	----	----
ø Asbestos Containing Material (as 15% Asbestos in ACM >7mm)	1332-21-4	0.01	% (w/w)	<0.01	<0.01	<0.01	----	----
ø Weight Used for % Calculation	----	0.0001	kg	0.230	0.172	0.181	----	----
EG005T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	12	6	----	10	12
Cadmium	7440-43-9	1	mg/kg	2	2	----	2	2
Chromium	7440-47-3	2	mg/kg	22	32	----	23	24
Copper	7440-50-8	5	mg/kg	35	<5	----	38	29
Lead	7439-92-1	5	mg/kg	292	22	----	405	365
Nickel	7440-02-0	2	mg/kg	4	<2	----	5	5
Zinc	7440-66-6	5	mg/kg	231	11	----	314	398
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	----	----	----	----	<0.1
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.06	----	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S1	S2	S3	S4	S6
			Client sampling date / time	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]
Compound	CAS Number	LOR	Unit	ES1706075-001	ES1706075-002	ES1706075-003	ES1706075-004	ES1706075-005
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	**0.35**	----	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	----	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	----	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	**0.41**	----	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	----	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	----	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	----	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S1	S2	S3	S4	S6
			Client sampling date / time	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]
Compound	CAS Number	LOR	Unit	ES1706075-001	ES1706075-002	ES1706075-003	ES1706075-004	ES1706075-005
				Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued								
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
EP074A: Monocyclic Aromatic Hydrocarbons								
Benzene	71-43-2	0.2	mg/kg	----	<0.2	----	----	<0.2
Toluene	108-88-3	0.5	mg/kg	----	<0.5	----	----	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	----	<0.5	----	----	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	----	<0.5	----	----	<0.5
Styrene	100-42-5	0.5	mg/kg	----	<0.5	----	----	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	----	<0.5	----	----	<0.5
Isopropylbenzene	98-82-8	0.5	mg/kg	----	<0.5	----	----	<0.5
n-Propylbenzene	103-65-1	0.5	mg/kg	----	<0.5	----	----	<0.5
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	----	<0.5	----	----	<0.5
sec-Butylbenzene	135-98-8	0.5	mg/kg	----	<0.5	----	----	<0.5
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	----	<0.5	----	----	<0.5
tert-Butylbenzene	98-06-6	0.5	mg/kg	----	<0.5	----	----	<0.5
p-Isopropyltoluene	99-87-6	0.5	mg/kg	----	<0.5	----	----	<0.5
n-Butylbenzene	104-51-8	0.5	mg/kg	----	<0.5	----	----	<0.5
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	----	<5	----	----	<5
2-Butanone (MEK)	78-93-3	5	mg/kg	----	<5	----	----	<5
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	----	<5	----	----	<5
2-Hexanone (MBK)	591-78-6	5	mg/kg	----	<5	----	----	<5
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg	----	<0.5	----	----	<0.5
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	----	<0.5	----	----	<0.5
1.2-Dichloropropane	78-87-5	0.5	mg/kg	----	<0.5	----	----	<0.5
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	----	<0.5	----	----	<0.5
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	----	<0.5	----	----	<0.5
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	----	<0.5	----	----	<0.5
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	5	mg/kg	----	<5	----	----	<5
Chloromethane	74-87-3	5	mg/kg	----	<5	----	----	<5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S1	S2	S3	S4	S6
			Client sampling date / time	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]
Compound	CAS Number	LOR	Unit	ES1706075-001	ES1706075-002	ES1706075-003	ES1706075-004	ES1706075-005
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued								
Vinyl chloride	75-01-4	5	mg/kg	----	<5	----	----	<5
Bromomethane	74-83-9	5	mg/kg	----	<5	----	----	<5
Chloroethane	75-00-3	5	mg/kg	----	<5	----	----	<5
Trichlorofluoromethane	75-69-4	5	mg/kg	----	<5	----	----	<5
1.1-Dichloroethene	75-35-4	0.5	mg/kg	----	<0.5	----	----	<0.5
Iodomethane	74-88-4	0.5	mg/kg	----	<0.5	----	----	<0.5
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	----	<0.5	----	----	<0.5
1.1-Dichloroethane	75-34-3	0.5	mg/kg	----	<0.5	----	----	<0.5
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	----	<0.5	----	----	<0.5
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	----	<0.5	----	----	<0.5
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	----	<0.5	----	----	<0.5
Carbon Tetrachloride	56-23-5	0.5	mg/kg	----	<0.5	----	----	<0.5
1.2-Dichloroethane	107-06-2	0.5	mg/kg	----	<0.5	----	----	<0.5
Trichloroethene	79-01-6	0.5	mg/kg	----	<0.5	----	----	<0.5
Dibromomethane	74-95-3	0.5	mg/kg	----	<0.5	----	----	<0.5
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	----	<0.5	----	----	<0.5
1.3-Dichloropropane	142-28-9	0.5	mg/kg	----	<0.5	----	----	<0.5
Tetrachloroethene	127-18-4	0.5	mg/kg	----	<0.5	----	----	<0.5
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	----	<0.5	----	----	<0.5
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	----	<0.5	----	----	<0.5
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	----	<0.5	----	----	<0.5
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	----	<0.5	----	----	<0.5
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	----	<0.5	----	----	<0.5
Pentachloroethane	76-01-7	0.5	mg/kg	----	<0.5	----	----	<0.5
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	----	<0.5	----	----	<0.5
Hexachlorobutadiene	87-68-3	0.5	mg/kg	----	<0.5	----	----	<0.5
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	----	<0.5	----	----	<0.5
Bromobenzene	108-86-1	0.5	mg/kg	----	<0.5	----	----	<0.5
2-Chlorotoluene	95-49-8	0.5	mg/kg	----	<0.5	----	----	<0.5
4-Chlorotoluene	106-43-4	0.5	mg/kg	----	<0.5	----	----	<0.5
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	----	<0.5	----	----	<0.5
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	----	<0.5	----	----	<0.5
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	----	<0.5	----	----	<0.5
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	----	<0.5	----	----	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S1	S2	S3	S4	S6
			Client sampling date / time	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]
Compound	CAS Number	LOR	Unit	ES1706075-001	ES1706075-002	ES1706075-003	ES1706075-004	ES1706075-005
				Result	Result	Result	Result	Result
EP074F: Halogenated Aromatic Compounds - Continued								
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	----	<0.5	----	----	<0.5
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	----	<0.5	----	----	<0.5
Bromodichloromethane	75-27-4	0.5	mg/kg	----	<0.5	----	----	<0.5
Dibromochloromethane	124-48-1	0.5	mg/kg	----	<0.5	----	----	<0.5
Bromoform	75-25-2	0.5	mg/kg	----	<0.5	----	----	<0.5
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	----	<1	----	----	<1
EP075(SIM)A: Phenolic Compounds								
Phenol	108-95-2	0.5	mg/kg	----	----	----	----	<0.5
2-Chlorophenol	95-57-8	0.5	mg/kg	----	----	----	----	<0.5
2-Methylphenol	95-48-7	0.5	mg/kg	----	----	----	----	<0.5
3- & 4-Methylphenol	1319-77-3	1	mg/kg	----	----	----	----	<1
2-Nitrophenol	88-75-5	0.5	mg/kg	----	----	----	----	<0.5
2.4-Dimethylphenol	105-67-9	0.5	mg/kg	----	----	----	----	<0.5
2.4-Dichlorophenol	120-83-2	0.5	mg/kg	----	----	----	----	<0.5
2.6-Dichlorophenol	87-65-0	0.5	mg/kg	----	----	----	----	<0.5
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	----	----	----	----	<0.5
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	----	----	----	----	<0.5
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	----	----	----	----	<0.5
Pentachlorophenol	87-86-5	2	mg/kg	----	----	----	----	<2
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	----	----	----	----	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	----	----	----	----	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	----	----	----	----	<0.5
Fluorene	86-73-7	0.5	mg/kg	----	----	----	----	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	----	----	----	----	**0.6**
Anthracene	120-12-7	0.5	mg/kg	----	----	----	----	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	----	----	----	----	**1.5**
Pyrene	129-00-0	0.5	mg/kg	----	----	----	----	**1.4**
Benz(a)anthracene	56-55-3	0.5	mg/kg	----	----	----	----	**0.6**
Chrysene	218-01-9	0.5	mg/kg	----	----	----	----	**0.6**
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	----	----	----	----	**0.8**
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	----	----	----	----	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S1	S2	S3	S4	S6
			Client sampling date / time	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]
Compound	CAS Number	LOR	Unit	ES1706075-001	ES1706075-002	ES1706075-003	ES1706075-004	ES1706075-005
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Benzo(a)pyrene	50-32-8	0.5	mg/kg	----	----	----	----	**0.7**
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	----	----	----	----	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	----	----	----	----	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	----	----	----	----	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	----	----	----	----	**6.2**
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	----	----	----	----	**0.8**
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	----	----	----	----	**1.1**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	----	----	----	----	**1.4**
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	----	<10	<10
C10 - C14 Fraction	----	50	mg/kg	<50	<50	----	<50	<50
C15 - C28 Fraction	----	100	mg/kg	**130**	<100	----	<100	<100
C29 - C36 Fraction	----	100	mg/kg	**100**	<100	----	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	**230**	<50	----	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	----	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	----	<10	<10
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	----	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	**200**	<100	----	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	----	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	**200**	<50	----	<50	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	----	<50	<50
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	----	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	----	<0.2	<0.2
^ Total Xylenes	1330-20-7	0.5	mg/kg	<0.5	<0.5	----	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg	<1	<1	----	<1	<1
EP066S: PCB Surrogate								

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S1	S2	S3	S4	S6
			Client sampling date / time	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]
Compound	CAS Number	LOR	Unit	ES1706075-001	ES1706075-002	ES1706075-003	ES1706075-004	ES1706075-005
				Result	Result	Result	Result	Result
EP066S: PCB Surrogate - Continued								
Decachlorobiphenyl	2051-24-3	0.1	%	----	----	----	----	102
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	102	95.5	93.0	----	106
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	81.3	93.4	98.6	----	104
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.5	%	----	75.0	----	----	85.2
Toluene-D8	2037-26-5	0.5	%	----	97.8	----	----	109
4-Bromofluorobenzene	460-00-4	0.5	%	----	94.1	----	----	95.5
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	----	----	----	----	85.3
2-Chlorophenol-D4	93951-73-6	0.5	%	----	----	----	----	95.1
2.4.6-Tribromophenol	118-79-6	0.5	%	----	----	----	----	75.8
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	----	----	----	----	105
Anthracene-d10	1719-06-8	0.5	%	----	----	----	----	103
4-Terphenyl-d14	1718-51-0	0.5	%	----	----	----	----	90.5
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	84.8	82.2	----	84.6	93.5
Toluene-D8	2037-26-5	0.2	%	84.6	83.8	----	85.4	93.6
4-Bromofluorobenzene	460-00-4	0.2	%	79.0	85.2	----	82.8	90.8

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S7	S8	S9	S10	S11
			Client sampling date / time	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]
Compound	CAS Number	LOR	Unit	ES1706075-006	ES1706075-007	ES1706075-008	ES1706075-009	ES1706075-010
				Result	Result	Result	Result	Result
EA055: Moisture Content								
Moisture Content (dried @ 103°C)	----	1	%	22.4	20.5	23.4	7.2	3.5
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	----	No	----	No	----
Asbestos Type	1332-21-4	-	--	----	-	----	-	----
Sample weight (dry)	----	0.01	g	----	302	----	224	----
APPROVED IDENTIFIER:	----	-	--	----	S.SPOONER	----	S.SPOONER	----
EA200N: Asbestos Quantification (non-NATA)								
ø Free Fibres	----	5	Fibres	----	No	----	No	----
ø Friable Asbestos	1332-21-4	0.0004	g	----	<0.0004	----	<0.0004	----
ø Friable Asbestos (as Asbestos in Soil)	1332-21-4	0.001	% (w/w)	----	<0.001	----	<0.001	----
ø Asbestos Containing Material	1332-21-4	0.1	g	----	<0.1	----	<0.1	----
ø Asbestos Containing Material (as 15% Asbestos in ACM >7mm)	1332-21-4	0.01	% (w/w)	----	<0.01	----	<0.01	----
ø Weight Used for % Calculation	----	0.0001	kg	----	0.302	----	0.224	----
EG005T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	9	12	6	----	6
Cadmium	7440-43-9	1	mg/kg	3	2	<1	----	2
Chromium	7440-47-3	2	mg/kg	28	24	16	----	44
Copper	7440-50-8	5	mg/kg	<5	257	14	----	25
Lead	7439-92-1	5	mg/kg	24	718	57	----	24
Nickel	7440-02-0	2	mg/kg	<2	11	3	----	31
Zinc	7440-66-6	5	mg/kg	<5	832	48	----	118
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	0.08	<0.05	<0.05	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.08	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S7	S8	S9	S10	S11
			Client sampling date / time	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]
Compound	CAS Number	LOR	Unit	ES1706075-006	ES1706075-007	ES1706075-008	ES1706075-009	ES1706075-010
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	**0.64**	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	**0.64**	<0.05	<0.05	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S7	S8	S9	S10	S11
			Client sampling date / time	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]
Compound	CAS Number	LOR	Unit	ES1706075-006	ES1706075-007	ES1706075-008	ES1706075-009	ES1706075-010
				Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued								
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	----	----	----	<0.5	----
Acenaphthylene	208-96-8	0.5	mg/kg	----	----	----	<0.5	----
Acenaphthene	83-32-9	0.5	mg/kg	----	----	----	<0.5	----
Fluorene	86-73-7	0.5	mg/kg	----	----	----	<0.5	----
Phenanthrene	85-01-8	0.5	mg/kg	----	----	----	<0.5	----
Anthracene	120-12-7	0.5	mg/kg	----	----	----	<0.5	----
Fluoranthene	206-44-0	0.5	mg/kg	----	----	----	<0.5	----
Pyrene	129-00-0	0.5	mg/kg	----	----	----	<0.5	----
Benz(a)anthracene	56-55-3	0.5	mg/kg	----	----	----	<0.5	----
Chrysene	218-01-9	0.5	mg/kg	----	----	----	<0.5	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	----	----	----	<0.5	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	----	----	----	<0.5	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg	----	----	----	<0.5	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	----	----	----	<0.5	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	----	----	----	<0.5	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	----	----	----	<0.5	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	----	----	----	<0.5	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	----	----	----	<0.5	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	----	----	----	**0.6**	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	----	----	----	**1.2**	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	----	----	----	<10	----
C10 - C14 Fraction	----	50	mg/kg	----	----	----	<50	----
C15 - C28 Fraction	----	100	mg/kg	----	----	----	<100	----
C29 - C36 Fraction	----	100	mg/kg	----	----	----	<100	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg	----	----	----	<50	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	----	----	----	<10	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	----	----	----	<10	----
>C10 - C16 Fraction	----	50	mg/kg	----	----	----	<50	----
>C16 - C34 Fraction	----	100	mg/kg	----	----	----	<100	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S7	S8	S9	S10	S11
			Client sampling date / time	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]
Compound	CAS Number	LOR	Unit	ES1706075-006	ES1706075-007	ES1706075-008	ES1706075-009	ES1706075-010
				Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued								
>C34 - C40 Fraction	----	100	mg/kg	----	----	----	<100	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	----	----	----	<50	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	----	----	----	<50	----
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	----	----	----	<0.2	----
Toluene	108-88-3	0.5	mg/kg	----	----	----	<0.5	----
Ethylbenzene	100-41-4	0.5	mg/kg	----	----	----	<0.5	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	----	----	----	<0.5	----
ortho-Xylene	95-47-6	0.5	mg/kg	----	----	----	<0.5	----
^ Sum of BTEX	----	0.2	mg/kg	----	----	----	<0.2	----
^ Total Xylenes	1330-20-7	0.5	mg/kg	----	----	----	<0.5	----
Naphthalene	91-20-3	1	mg/kg	----	----	----	<1	----
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	109	95.1	87.9	95.3	66.8
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	96.8	105	76.1	86.5	63.4
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	----	----	----	80.6	----
2-Chlorophenol-D4	93951-73-6	0.5	%	----	----	----	89.1	----
2.4.6-Tribromophenol	118-79-6	0.5	%	----	----	----	68.1	----
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	----	----	----	98.4	----
Anthracene-d10	1719-06-8	0.5	%	----	----	----	94.0	----
4-Terphenyl-d14	1718-51-0	0.5	%	----	----	----	84.6	----
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	----	----	----	91.3	----
Toluene-D8	2037-26-5	0.2	%	----	----	----	91.0	----
4-Bromofluorobenzene	460-00-4	0.2	%	----	----	----	84.3	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S12	S13	TB01	----	----
			Client sampling date / time	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	----	----
Compound	CAS Number	LOR	Unit	ES1706075-011	ES1706075-012	ES1706075-014	--------	--------
				Result	Result	Result	----	----
EA055: Moisture Content								
Moisture Content (dried @ 103°C)	----	1	%	5.2	15.2	1.9	----	----
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	No	----	----	----	----
Asbestos Type	1332-21-4	-	--	-	----	----	----	----
Sample weight (dry)	----	0.01	g	224	----	----	----	----
APPROVED IDENTIFIER:	----	-	--	S.SPOONER	----	----	----	----
EA200N: Asbestos Quantification (non-NATA)								
ø Free Fibres	----	5	Fibres	No	----	----	----	----
ø Friable Asbestos	1332-21-4	0.0004	g	<0.0004	----	----	----	----
ø Friable Asbestos (as Asbestos in Soil)	1332-21-4	0.001	% (w/w)	<0.001	----	----	----	----
ø Asbestos Containing Material	1332-21-4	0.1	g	<0.1	----	----	----	----
ø Asbestos Containing Material (as 15% Asbestos in ACM >7mm)	1332-21-4	0.01	% (w/w)	<0.01	----	----	----	----
ø Weight Used for % Calculation	----	0.0001	kg	0.224	----	----	----	----
EG005T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	<5	<5	----	----	----
Cadmium	7440-43-9	1	mg/kg	2	<1	----	----	----
Chromium	7440-47-3	2	mg/kg	25	10	----	----	----
Copper	7440-50-8	5	mg/kg	258	5	----	----	----
Lead	7439-92-1	5	mg/kg	83	24	----	----	----
Nickel	7440-02-0	2	mg/kg	30	<2	----	----	----
Zinc	7440-66-6	5	mg/kg	229	33	----	----	----
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	0.1	----	----	----	----
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	----	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	----	----	----
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	----	----	----
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	----	----	----
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	----	----	----
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	----	----	----
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	----	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S12	S13	TB01	----	----
			Client sampling date / time	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	----	----
Compound	CAS Number	LOR	Unit	ES1706075-011	ES1706075-012	ES1706075-014	--------	--------
				Result	Result	Result	----	----
EP068A: Organochlorine Pesticides (OC) - Continued								
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	----	----	----
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	----	----	----
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	----	----	----
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	----	----	----
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	----	----	----
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	----	----	----
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	----	----	----
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	----	----	----
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	----	----	----
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	----	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	----	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	----	----	----
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	----	----	----
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	----	----	----
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	----	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	----	----	----
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	----	----	----
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	----	----	----
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	----	----	----
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	----	----	----
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	----	----	----
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	----	----	----
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	----	----	----
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	----	----	----
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	----	----	----
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	----	----	----
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	----	----	----
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	----	----	----
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	----	----	----
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	----	----	----
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	----	----	----
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	----	----	----
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S12	S13	TB01	----	----
			Client sampling date / time	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	----	----
Compound	CAS Number	LOR	Unit	ES1706075-011	ES1706075-012	ES1706075-014	--------	--------
				Result	Result	Result	----	----
EP068B: Organophosphorus Pesticides (OP) - Continued								
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	----	----	----
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	----	----	----
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	----	----	----
EP074A: Monocyclic Aromatic Hydrocarbons								
Benzene	71-43-2	0.2	mg/kg	<0.2	----	----	----	----
Toluene	108-88-3	0.5	mg/kg	<0.5	----	----	----	----
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	----	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	----	----	----	----
Styrene	100-42-5	0.5	mg/kg	<0.5	----	----	----	----
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	----	----	----	----
Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	----	----	----	----
n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	----	----	----	----
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	----	----	----	----
sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	----	----	----	----
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	----	----	----	----
tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	----	----	----	----
p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	----	----	----	----
n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	----	----	----	----
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	<5	----	----	----	----
2-Butanone (MEK)	78-93-3	5	mg/kg	<5	----	----	----	----
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	----	----	----	----
2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	----	----	----	----
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	----	----	----	----
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	----	----	----	----
1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	----	----	----	----
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	----	----	----	----
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	----	----	----	----
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	----	----	----	----
EP074E: Halogenated Aliphatic Compounds								
Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	----	----	----	----
Chloromethane	74-87-3	5	mg/kg	<5	----	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S12	S13	TB01	----	----
			Client sampling date / time	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	----	----
Compound	CAS Number	LOR	Unit	ES1706075-011	ES1706075-012	ES1706075-014	--------	--------
				Result	Result	Result	----	----
EP074E: Halogenated Aliphatic Compounds - Continued								
Vinyl chloride	75-01-4	5	mg/kg	<5	----	----	----	----
Bromomethane	74-83-9	5	mg/kg	<5	----	----	----	----
Chloroethane	75-00-3	5	mg/kg	<5	----	----	----	----
Trichlorofluoromethane	75-69-4	5	mg/kg	<5	----	----	----	----
1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	----	----	----	----
Iodomethane	74-88-4	0.5	mg/kg	<0.5	----	----	----	----
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	----	----	----	----
1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	----	----	----	----
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	----	----	----	----
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	----	----	----	----
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	----	----	----	----
Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	----	----	----	----
1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	----	----	----	----
Trichloroethene	79-01-6	0.5	mg/kg	<0.5	----	----	----	----
Dibromomethane	74-95-3	0.5	mg/kg	<0.5	----	----	----	----
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	----	----	----	----
1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	----	----	----	----
Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	----	----	----	----
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	----	----	----	----
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	----	----	----	----
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	----	----	----	----
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	----	----	----	----
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	----	----	----	----
Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	----	----	----	----
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	----	----	----	----
Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	----	----	----	----
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	----	----	----	----
Bromobenzene	108-86-1	0.5	mg/kg	<0.5	----	----	----	----
2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	----	----	----	----
4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	----	----	----	----
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	----	----	----	----
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	----	----	----	----
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	----	----	----	----
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	----	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S12	S13	TB01	----	----
			Client sampling date / time	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	----	----
Compound	CAS Number	LOR	Unit	ES1706075-011	ES1706075-012	ES1706075-014	--------	--------
				Result	Result	Result	----	----
EP074F: Halogenated Aromatic Compounds - Continued								
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	----	----	----	----
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	<0.5	----	----	----	----
Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	----	----	----	----
Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	----	----	----	----
Bromoform	75-25-2	0.5	mg/kg	<0.5	----	----	----	----
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	----	----	----	----
EP075(SIM)A: Phenolic Compounds								
Phenol	108-95-2	0.5	mg/kg	<0.5	----	----	----	----
2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	----	----	----	----
2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	----	----	----	----
3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	----	----	----	----
2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	----	----	----	----
2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	----	----	----	----
2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	----	----	----	----
2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	----	----	----	----
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	----	----	----	----
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	----	----	----	----
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	----	----	----	----
Pentachlorophenol	87-86-5	2	mg/kg	<2	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	----	----	----	----
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	----	----	----	----
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	----	----	----	----
Fluorene	86-73-7	0.5	mg/kg	<0.5	----	----	----	----
Phenanthrene	85-01-8	0.5	mg/kg	**0.7**	----	----	----	----
Anthracene	120-12-7	0.5	mg/kg	<0.5	----	----	----	----
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	----	----	----	----
Pyrene	129-00-0	0.5	mg/kg	<0.5	----	----	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	----	----	----	----
Chrysene	218-01-9	0.5	mg/kg	<0.5	----	----	----	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	----	----	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	----	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S12	S13	TB01	----	----
			Client sampling date / time	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	----	----
Compound	CAS Number	LOR	Unit	ES1706075-011	ES1706075-012	ES1706075-014	--------	--------
				Result	Result	Result	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	----	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	----	----	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	----	----	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	----	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	**0.7**	----	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	----	----	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	----	----	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	----	<10	----	----
C10 - C14 Fraction	----	50	mg/kg	<50	----	----	----	----
C15 - C28 Fraction	----	100	mg/kg	**110**	----	----	----	----
C29 - C36 Fraction	----	100	mg/kg	<100	----	----	----	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg	**110**	----	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	----	<10	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	----	<10	----	----
>C10 - C16 Fraction	----	50	mg/kg	<50	----	----	----	----
>C16 - C34 Fraction	----	100	mg/kg	**140**	----	----	----	----
>C34 - C40 Fraction	----	100	mg/kg	<100	----	----	----	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	**140**	----	----	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	----	----	----	----
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	----	<0.2	----	----
Toluene	108-88-3	0.5	mg/kg	<0.5	----	<0.5	----	----
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	----	<0.5	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	----	<0.5	----	----
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	----	<0.5	----	----
^ Sum of BTEX	----	0.2	mg/kg	<0.2	----	<0.2	----	----
^ Total Xylenes	1330-20-7	0.5	mg/kg	<0.5	----	<0.5	----	----
Naphthalene	91-20-3	1	mg/kg	<1	----	<1	----	----
EP066S: PCB Surrogate								

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S12	S13	TB01	----	----
			Client sampling date / time	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	----	----
Compound	CAS Number	LOR	Unit	ES1706075-011	ES1706075-012	ES1706075-014	--------	--------
				Result	Result	Result	----	----
EP066S: PCB Surrogate - Continued								
Decachlorobiphenyl	2051-24-3	0.1	%	105	----	----	----	----
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	114	102	----	----	----
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	88.6	85.6	----	----	----
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.5	%	87.2	----	----	----	----
Toluene-D8	2037-26-5	0.5	%	115	----	----	----	----
4-Bromofluorobenzene	460-00-4	0.5	%	99.5	----	----	----	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	82.2	----	----	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%	91.3	----	----	----	----
2.4.6-Tribromophenol	118-79-6	0.5	%	72.2	----	----	----	----
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	101	----	----	----	----
Anthracene-d10	1719-06-8	0.5	%	96.3	----	----	----	----
4-Terphenyl-d14	1718-51-0	0.5	%	86.1	----	----	----	----
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	95.6	----	86.6	----	----
Toluene-D8	2037-26-5	0.2	%	98.8	----	86.6	----	----
4-Bromofluorobenzene	460-00-4	0.2	%	92.2	----	82.4	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Client sample ID	RB01	----	----	----	----
			Client sampling date / time	[10-Mar-2017]	----	----	----	----
Compound	CAS Number	LOR	Unit	ES1706075-013	--------	--------	--------	--------
				Result	----	----	----	----
EG020F: Dissolved Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	<0.001	----	----	----	----
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	----	----	----	----
Chromium	7440-47-3	0.001	mg/L	<0.001	----	----	----	----
Copper	7440-50-8	0.001	mg/L	<0.001	----	----	----	----
Nickel	7440-02-0	0.001	mg/L	<0.001	----	----	----	----
Lead	7439-92-1	0.001	mg/L	<0.001	----	----	----	----
Zinc	7440-66-6	0.005	mg/L	<0.005	----	----	----	----
EG035F: Dissolved Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	µg/L	<20	----	----	----	----
C10 - C14 Fraction	----	50	µg/L	<50	----	----	----	----
C15 - C28 Fraction	----	100	µg/L	<100	----	----	----	----
C29 - C36 Fraction	----	50	µg/L	<50	----	----	----	----
^ C10 - C36 Fraction (sum)	----	50	µg/L	<50	----	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	20	µg/L	<20	----	----	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	<20	----	----	----	----
>C10 - C16 Fraction	----	100	µg/L	<100	----	----	----	----
>C16 - C34 Fraction	----	100	µg/L	<100	----	----	----	----
>C34 - C40 Fraction	----	100	µg/L	<100	----	----	----	----
^ >C10 - C40 Fraction (sum)	----	100	µg/L	<100	----	----	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	<100	----	----	----	----
EP080: BTEXN								
Benzene	71-43-2	1	µg/L	<1	----	----	----	----
Toluene	108-88-3	2	µg/L	<2	----	----	----	----
Ethylbenzene	100-41-4	2	µg/L	<2	----	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	----	----	----	----
ortho-Xylene	95-47-6	2	µg/L	<2	----	----	----	----
^ Total Xylenes	1330-20-7	2	µg/L	<2	----	----	----	----
^ Sum of BTEX	----	1	µg/L	<1	----	----	----	----
Naphthalene	91-20-3	5	µg/L	<5	----	----	----	----

Analytical Results

Sub-Matrix: **WATER** (Matrix: **WATER**)			Client sample ID	**RB01**	----	----	----	----
			Client sampling date / time	[10-Mar-2017]	----	----	----	----
Compound	CAS Number	LOR	Unit	**ES1706075-013**	--------	--------	--------	--------
				Result	----	----	----	----
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	2	%	**116**	----	----	----	----
Toluene-D8	2037-26-5	2	%	**112**	----	----	----	----
4-Bromofluorobenzene	460-00-4	2	%	**111**	----	----	----	----

Analytical Results

Descriptive Results

Sub-Matrix: **SOIL**

Method: Compound	Client sample ID - Client sampling date / time	Analytical Results
EA200: AS 4964 - 2004 Identification of Asbestos in Soils		
EA200: Description	S1 - [10-Mar-2017]	Mid brown clay soil.
EA200: Description	S2 - [10-Mar-2017]	Mid brown clay soil.
EA200: Description	S3 - [10-Mar-2017]	Mid brown clay soil.
EA200: Description	S8 - [10-Mar-2017]	Mid brown clay soil.
EA200: Description	S10 - [10-Mar-2017]	Dark grey sandy soil.
EA200: Description	S12 - [10-Mar-2017]	Dark grey sandy soil.

Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP066S: PCB Surrogate			
Decachlorobiphenyl	2051-24-3	39	149
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	49	147
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	35	143
EP074S: VOC Surrogates			
1.2-Dichloroethane-D4	17060-07-0	64	130
Toluene-D8	2037-26-5	66	136
4-Bromofluorobenzene	460-00-4	60	122
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	63	123
2-Chlorophenol-D4	93951-73-6	66	122
2.4.6-Tribromophenol	118-79-6	40	138
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	70	122
Anthracene-d10	1719-06-8	66	128
4-Terphenyl-d14	1718-51-0	65	129
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	73	133
Toluene-D8	2037-26-5	74	132
4-Bromofluorobenzene	460-00-4	72	130

Sub-Matrix: WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	71	137
Toluene-D8	2037-26-5	79	131
4-Bromofluorobenzene	460-00-4	70	128

ALS Environmental

QUALITY CONTROL REPORT

Work Order	: **ES1706075**	Page	: 1 of 20
Client	: **SMEC TESTING SERVICES PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR EDWIN TRUJILLO	Contact	: Customer Services ES
Address	: P O BOX 6989 WETHERILL PARK NSW, AUSTRALIA 2164	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: ----	Telephone	: +61-2-8784 8555
Project	: 21192/7558C	Date Samples Received	: 14-Mar-2017
Order number	: E-2017-132	Date Analysis Commenced	: 16-Mar-2017
C-O-C number	: ----	Issue Date	: 22-Mar-2017
Sampler	: ----		
Site	: ----		
Quote number	: SYBQ/234/16		
No. of samples received	: 14		
No. of samples analysed	: 14		

ilac-MRA NATA
Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Edwandy Fadjar	Organic Coordinator	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Sanjeshni Jyoti	Senior Chemist Volatiles	Sydney Organics, Smithfield, NSW
Shaun Spooner	Asbestos Identifier	Newcastle - Asbestos, Mayfield West, NSW
Wisam Marassa	Inorganics Coordinator	Sydney Inorganics, Smithfield, NSW

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Client sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Recovery Limits (%)*
EA055: Moisture Content (QC Lot: 794882)									
ES1705737-022	Anonymous	EA055-103: Moisture Content (dried @ 103°C)	----	1	%	18.2	18.0	1.18	0% - 50%
ES1706058-001	Anonymous	EA055-103: Moisture Content (dried @ 103°C)	----	1	%	8.6	8.4	2.66	No Limit
EA055: Moisture Content (QC Lot: 794883)									
ES1706075-008	S9	EA055-103: Moisture Content (dried @ 103°C)	----	1	%	23.4	25.1	6.98	0% - 20%
EG005T: Total Metals by ICP-AES (QC Lot: 796803)									
ES1706075-006	S7	EG005T: Cadmium	7440-43-9	1	mg/kg	3	2	49.8	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	28	22	21.7	0% - 50%
		EG005T: Nickel	7440-02-0	2	mg/kg	<2	<2	0.00	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	9	7	31.2	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	<5	<5	0.00	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	24	29	17.2	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	<5	12	84.8	No Limit
ES1706086-001	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.00	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	4	13	97.5	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	4	8	64.4	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.00	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	9	11	20.4	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	14	14	0.00	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	30	30	0.00	No Limit
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 793423)									
ES1706075-005	S6	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.00	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 793420)									
ES1706086-001	Anonymous	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.00	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
				Laboratory Duplicate (DUP) Report					
EP068A: Organochlorine Pesticides (OC) (QC Lot: 793420) - continued									
ES1706086-001	Anonymous	EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
ES1706075-005	S6	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.00	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
				Laboratory Duplicate (DUP) Report					
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 793420)									
ES1706086-001	Anonymous	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
		EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
ES1706075-005	S6	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
		EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 796793)									
ES1706208-001	Anonymous	EP074: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.00	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
				Laboratory Duplicate (DUP) Report					
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 796793) - continued									
ES1706208-001	Anonymous	EP074: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
ES1706075-002	S2	EP074: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
		EP074: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
EP074B: Oxygenated Compounds (QC Lot: 796793)									
ES1706208-001	Anonymous	EP074: Vinyl Acetate	108-05-4	5	mg/kg	<5	<5	0.00	No Limit
		EP074: 2-Butanone (MEK)	78-93-3	5	mg/kg	<5	<5	0.00	No Limit
		EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	<5	0.00	No Limit
		EP074: 2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	<5	0.00	No Limit
ES1706075-002	S2	EP074: Vinyl Acetate	108-05-4	5	mg/kg	<5	<5	0.00	No Limit
		EP074: 2-Butanone (MEK)	78-93-3	5	mg/kg	<5	<5	0.00	No Limit
		EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	<5	0.00	No Limit
		EP074: 2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	<5	0.00	No Limit
EP074C: Sulfonated Compounds (QC Lot: 796793)									
ES1706208-001	Anonymous	EP074: Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	<0.5	0.00	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP074C: Sulfonated Compounds (QC Lot: 796793) - continued									
ES1706075-002	S2	EP074: Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
EP074D: Fumigants (QC Lot: 796793)									
ES1706208-001	Anonymous	EP074: 2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
ES1706075-002	S2	EP074: 2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
EP074E: Halogenated Aliphatic Compounds (QC Lot: 796793)									
ES1706208-001	Anonymous	EP074: 1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Iodomethane	74-88-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Trichloroethene	79-01-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Dibromomethane	74-95-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	<5	0.00	No Limit
		EP074: Chloromethane	74-87-3	5	mg/kg	<5	<5	0.00	No Limit
		EP074: Vinyl chloride	75-01-4	5	mg/kg	<5	<5	0.00	No Limit
		EP074: Bromomethane	74-83-9	5	mg/kg	<5	<5	0.00	No Limit
		EP074: Chloroethane	75-00-3	5	mg/kg	<5	<5	0.00	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
				Laboratory Duplicate (DUP) Report					
EP074E: Halogenated Aliphatic Compounds (QC Lot: 796793) - continued									
ES1706208-001	Anonymous	EP074: Trichlorofluoromethane	75-69-4	5	mg/kg	<5	<5	0.00	No Limit
ES1706075-002	S2	EP074: 1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Iodomethane	74-88-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Trichloroethene	79-01-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Dibromomethane	74-95-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	<5	0.00	No Limit
		EP074: Chloromethane	74-87-3	5	mg/kg	<5	<5	0.00	No Limit
		EP074: Vinyl chloride	75-01-4	5	mg/kg	<5	<5	0.00	No Limit
		EP074: Bromomethane	74-83-9	5	mg/kg	<5	<5	0.00	No Limit
		EP074: Chloroethane	75-00-3	5	mg/kg	<5	<5	0.00	No Limit
		EP074: Trichlorofluoromethane	75-69-4	5	mg/kg	<5	<5	0.00	No Limit
EP074F: Halogenated Aromatic Compounds (QC Lot: 796793)									
ES1706208-001	Anonymous	EP074: Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Bromobenzene	108-86-1	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
ES1706075-002	S2	EP074: Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
				Laboratory Duplicate (DUP) Report					
EP074F: Halogenated Aromatic Compounds (QC Lot: 796793) - continued									
ES1706075-002	S2	EP074: Bromobenzene	108-86-1	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
EP074G: Trihalomethanes (QC Lot: 796793)									
ES1706208-001	Anonymous	EP074: Chloroform	67-66-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Bromoform	75-25-2	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
ES1706075-002	S2	EP074: Chloroform	67-66-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Bromoform	75-25-2	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
EP074H: Naphthalene (QC Lot: 796793)									
ES1706208-001	Anonymous	EP074: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.00	No Limit
ES1706075-002	S2	EP074: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.00	No Limit
EP075(SIM)A: Phenolic Compounds (QC Lot: 793422)									
ES1706075-005	S6	EP075(SIM): Phenol	108-95-2	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	0.00	No Limit
		EP075(SIM): Pentachlorophenol	87-86-5	2	mg/kg	<2	<2	0.00	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 793422)									
ES1706075-005	S6	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	0.6	0.6	0.00	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
				Laboratory Duplicate (DUP) Report					
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 793422) - continued									
ES1706075-005	S6	EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	1.5	1.5	0.00	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	1.4	1.5	0.00	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	0.6	0.7	0.00	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	0.6	0.7	0.00	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	0.8	0.9	0.00	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	0.7	0.7	0.00	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	6.2	6.6	6.25	0% - 50%
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	0.8	0.9	0.00	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 793421)									
ES1706075-005	S6	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.00	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 796792)									
ES1706208-001	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.00	No Limit
ES1706075-002	S2	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.00	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 793421)									
ES1706075-005	S6	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.00	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 796792)									
ES1706208-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.00	No Limit
ES1706075-002	S2	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.00	No Limit
EP080: BTEXN (QC Lot: 796792)									
ES1706208-001	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.00	No Limit
ES1706075-002	S2	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
				Laboratory Duplicate (DUP) Report					
EP080: BTEXN (QC Lot: 796792) - continued									
ES1706075-002	S2	EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.00	No Limit

Sub-Matrix: **WATER**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
				Laboratory Duplicate (DUP) Report					
EG020F: Dissolved Metals by ICP-MS (QC Lot: 800522)									
ES1706537-001	Anonymous	EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.00	No Limit
		EG020A-F: Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	0.00	No Limit
		EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.00	No Limit
		EG020A-F: Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	0.00	No Limit
		EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.00	No Limit
		EG020A-F: Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	0.00	No Limit
		EG020A-F: Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	0.00	No Limit
ES1706537-011	Anonymous	EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.00	No Limit
		EG020A-F: Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	0.00	No Limit
		EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.00	No Limit
		EG020A-F: Copper	7440-50-8	0.001	mg/L	0.001	0.001	0.00	No Limit
		EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.00	No Limit
		EG020A-F: Nickel	7440-02-0	0.001	mg/L	0.002	0.002	0.00	No Limit
		EG020A-F: Zinc	7440-66-6	0.005	mg/L	0.007	0.007	0.00	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 794598)									
ES1706118-003	Anonymous	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.00	No Limit
ES1706118-004	Anonymous	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.00	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 794598)									
ES1706118-003	Anonymous	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.00	No Limit
ES1706118-004	Anonymous	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.00	No Limit
EP080: BTEXN (QC Lot: 794598)									
ES1706118-003	Anonymous	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.00	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.00	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.00	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.00	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.00	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.00	No Limit
ES1706118-004	Anonymous	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.00	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.00	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.00	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Client sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Recovery Limits (%)*
EP080: BTEXN (QC Lot: 794598) - continued									
ES1706118-004	Anonymous	EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.00	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.00	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.00	No Limit

Method Blank (MB) and Laboratory Control Spike (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Spike (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **SOIL**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Recovery Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EG005T: Total Metals by ICP-AES (QCLot: 796803)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	21.7 mg/kg	102	86	126
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	4.64 mg/kg	102	83	113
EG005T: Chromium	7440-47-3	2	mg/kg	<2	43.9 mg/kg	85.8	76	128
EG005T: Copper	7440-50-8	5	mg/kg	<5	32 mg/kg	97.2	86	120
EG005T: Lead	7439-92-1	5	mg/kg	<5	40 mg/kg	98.7	80	114
EG005T: Nickel	7440-02-0	2	mg/kg	<2	55 mg/kg	98.3	87	123
EG005T: Zinc	7440-66-6	5	mg/kg	<5	60.8 mg/kg	101	80	122
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 793423)								
EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	102	62	126
EP068A: Organochlorine Pesticides (OC) (QCLot: 793420)								
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	89.2	69	113
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	84.2	65	117
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	82.3	67	119
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	91.0	68	116
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	81.6	65	117
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	88.8	67	115
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	88.8	69	115
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	93.0	62	118
EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.5 mg/kg	93.9	63	117
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	95.6	66	116
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	95.2	64	116
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	97.2	66	116
EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	96.1	67	115
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	98.6	67	123
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	101	69	115
EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	0.5 mg/kg	96.2	69	121
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	98.4	56	120
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	94.5	62	124
EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	102	66	120
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	96.9	64	122
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	103	54	130
EP068B: Organophosphorus Pesticides (OP) (QCLot: 793420)								
EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	0.5 mg/kg	79.1	59	119
EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	87.1	62	128

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High
EP068B: Organophosphorus Pesticides (OP) (QCLot: 793420) - continued								
EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	0.5 mg/kg	102	54	126
EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	0.5 mg/kg	97.8	67	119
EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	0.5 mg/kg	89.8	70	120
EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	0.5 mg/kg	89.8	72	120
EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	0.5 mg/kg	96.2	68	120
EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	0.5 mg/kg	96.2	68	122
EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	0.5 mg/kg	99.4	69	117
EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	0.5 mg/kg	96.8	76	118
EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	0.5 mg/kg	104	64	122
EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	0.5 mg/kg	101	70	116
EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	0.5 mg/kg	103	69	121
EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	0.5 mg/kg	102	66	118
EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	0.5 mg/kg	103	68	124
EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	0.5 mg/kg	104	62	112
EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	0.5 mg/kg	105	68	120
EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	0.5 mg/kg	96.5	65	127
EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	0.5 mg/kg	98.0	41	123
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 796793)								
EP074: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	88.4	71	121
EP074: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	87.6	65	131
EP074: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	81.7	72	114
EP074: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	78.5	70	116
EP074: Styrene	100-42-5	0.5	mg/kg	<0.5	1 mg/kg	79.2	67	113
EP074: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	79.9	75	115
EP074: Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	1 mg/kg	83.4	65	117
EP074: n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	1 mg/kg	85.6	66	122
EP074: 1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	1 mg/kg	81.8	68	118
EP074: sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	1 mg/kg	81.1	69	119
EP074: 1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	1 mg/kg	79.6	69	117
EP074: tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	1 mg/kg	83.6	69	115
EP074: p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	1 mg/kg	80.0	66	118
EP074: n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	1 mg/kg	84.9	59	125
EP074B: Oxygenated Compounds (QCLot: 796793)								
EP074: Vinyl Acetate	108-05-4	5	mg/kg	<5	10 mg/kg	35.7	30	156
EP074: 2-Butanone (MEK)	78-93-3	5	mg/kg	<5	10 mg/kg	91.5	58	136
EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	10 mg/kg	90.8	62	132
EP074: 2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	10 mg/kg	101	54	136

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High
EP074C: Sulfonated Compounds (QCLot: 796793)								
EP074: Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	1 mg/kg	63.6	54	126
EP074D: Fumigants (QCLot: 796793)								
EP074: 2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	1 mg/kg	79.4	60	126
EP074: 1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	1 mg/kg	89.0	68	124
EP074: cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	1 mg/kg	92.0	51	119
EP074: trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	1 mg/kg	88.3	52	114
EP074: 1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	1 mg/kg	97.1	63	115
EP074E: Halogenated Aliphatic Compounds (QCLot: 796793)								
EP074: Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	10 mg/kg	86.4	30	148
EP074: Chloromethane	74-87-3	5	mg/kg	<5	10 mg/kg	73.4	41	141
EP074: Vinyl chloride	75-01-4	5	mg/kg	<5	10 mg/kg	100	43	147
EP074: Bromomethane	74-83-9	5	mg/kg	<5	10 mg/kg	92.9	47	141
EP074: Chloroethane	75-00-3	5	mg/kg	<5	10 mg/kg	114	49	143
EP074: Trichlorofluoromethane	75-69-4	5	mg/kg	<5	10 mg/kg	102	49	135
EP074: 1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	1 mg/kg	81.8	54	126
EP074: Iodomethane	74-88-4	0.5	mg/kg	<0.5	1 mg/kg	104	43	129
EP074: trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	1 mg/kg	82.0	64	120
EP074: 1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	1 mg/kg	85.1	67	125
EP074: cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	1 mg/kg	82.3	69	121
EP074: 1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	1 mg/kg	77.3	65	117
EP074: 1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	1 mg/kg	84.4	65	123
EP074: Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	1 mg/kg	83.0	59	125
EP074: 1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	1 mg/kg	82.5	65	125
EP074: Trichloroethene	79-01-6	0.5	mg/kg	<0.5	1 mg/kg	83.8	70	118
EP074: Dibromomethane	74-95-3	0.5	mg/kg	<0.5	1 mg/kg	94.6	68	118
EP074: 1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	1 mg/kg	93.8	64	126
EP074: 1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	1 mg/kg	97.4	68	122
EP074: Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	1 mg/kg	118	67	143
EP074: 1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	1 mg/kg	88.4	62	122
EP074: trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	1 mg/kg	104	54	128
EP074: cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	1 mg/kg	108	55	129
EP074: 1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	1 mg/kg	79.3	65	121
EP074: 1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	1 mg/kg	95.8	61	125
EP074: Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	1 mg/kg	40.4	20	134
EP074: 1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	1 mg/kg	55.1	53	129
EP074: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	1 mg/kg	82.7	50	128
EP074F: Halogenated Aromatic Compounds (QCLot: 796793)								
EP074: Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	1 mg/kg	87.3	68	116

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High
EP074F: Halogenated Aromatic Compounds (QCLot: 796793) - continued								
EP074: Bromobenzene	108-86-1	0.5	mg/kg	<0.5	1 mg/kg	83.6	70	1147
EP074: 2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	1 mg/kg	83.1	68	122
EP074: 4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	1 mg/kg	86.4	67	123
EP074: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	1 mg/kg	82.0	70	116
EP074: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	1 mg/kg	80.0	67	117
EP074: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	1 mg/kg	92.1	70	114
EP074: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	1 mg/kg	82.7	48	122
EP074: 1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	1 mg/kg	76.4	52	122
EP074G: Trihalomethanes (QCLot: 796793)								
EP074: Chloroform	67-66-3	0.5	mg/kg	<0.5	1 mg/kg	78.8	66	124
EP074: Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	1 mg/kg	78.3	61	121
EP074: Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	1 mg/kg	87.0	63	121
EP074: Bromoform	75-25-2	0.5	mg/kg	<0.5	1 mg/kg	103	60	126
EP074H: Naphthalene (QCLot: 796793)								
EP074: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	86.0	67	129
EP075(SIM)A: Phenolic Compounds (QCLot: 793422)								
EP075(SIM): Phenol	108-95-2	0.5	mg/kg	<0.5	6 mg/kg	103	71	125
EP075(SIM): 2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	6 mg/kg	108	72	124
EP075(SIM): 2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	6 mg/kg	108	71	123
EP075(SIM): 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	12 mg/kg	117	67	127
EP075(SIM): 2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	6 mg/kg	82.5	54	114
EP075(SIM): 2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	6 mg/kg	110	68	126
EP075(SIM): 2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	6 mg/kg	104	66	120
EP075(SIM): 2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	6 mg/kg	108	70	120
EP075(SIM): 4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	6 mg/kg	100.0	70	116
EP075(SIM): 2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	6 mg/kg	95.5	54	114
EP075(SIM): 2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	6 mg/kg	100	60	114
EP075(SIM): Pentachlorophenol	87-86-5	2	mg/kg	<2	12 mg/kg	18.6	10	57
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 793422)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	6 mg/kg	106	77	125
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	6 mg/kg	107	72	124
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	6 mg/kg	116	73	127
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	6 mg/kg	110	72	126
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	6 mg/kg	108	75	127
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	6 mg/kg	110	77	127
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	6 mg/kg	110	73	127
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	6 mg/kg	111	74	128
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	6 mg/kg	95.2	69	123

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 793422) - continued								
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	6 mg/kg	100	75	127
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	6 mg/kg	88.4	68	116
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	6 mg/kg	99.0	74	126
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	6 mg/kg	102	70	126
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	6 mg/kg	95.2	61	121
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	6 mg/kg	99.7	62	118
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	6 mg/kg	95.2	63	121
EP080/071: Total Petroleum Hydrocarbons (QCLot: 793421)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	200 mg/kg	95.6	75	129
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	300 mg/kg	105	77	131
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	200 mg/kg	106	71	129
EP080/071: Total Petroleum Hydrocarbons (QCLot: 796792)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	26 mg/kg	71.3	68	128
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 793421)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	250 mg/kg	97.4	77	125
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	350 mg/kg	108	74	138
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	150 mg/kg	99.7	63	131
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 796792)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	31 mg/kg	70.3	68	128
EP080: BTEXN (QCLot: 796792)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	76.9	62	116
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	77.0	67	121
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	86.2	65	117
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	88.8	66	118
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	85.2	68	120
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	74.6	63	119

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%) LCS	Recovery Limits (%) Low	Recovery Limits (%) High
EG020F: Dissolved Metals by ICP-MS (QCLot: 800522)								
EG020A-F: Arsenic	7440-38-2	0.001	mg/L	<0.001	0.1 mg/L	104	85	114
EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	0.1 mg/L	93.1	84	110
EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	0.1 mg/L	102	85	111
EG020A-F: Copper	7440-50-8	0.001	mg/L	<0.001	0.1 mg/L	101	81	111
EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	0.1 mg/L	93.7	83	111
EG020A-F: Nickel	7440-02-0	0.001	mg/L	<0.001	0.1 mg/L	99.6	82	112

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High
EG020F: Dissolved Metals by ICP-MS (QCLot: 800522) - continued								
EG020A-F: Zinc	7440-66-6	0.005	mg/L	<0.005	0.1 mg/L	100	81	117
EG035F: Dissolved Mercury by FIMS (QCLot: 800523)								
EG035F: Mercury	7439-97-6	0.0001	mg/L	<0.0001	0.01 mg/L	88.7	83	105
EP080/071: Total Petroleum Hydrocarbons (QCLot: 793506)								
EP071: C10 - C14 Fraction	----	50	µg/L	<50	2000 µg/L	98.4	76	116
EP071: C15 - C28 Fraction	----	100	µg/L	<100	3000 µg/L	96.9	83	109
EP071: C29 - C36 Fraction	----	50	µg/L	<50	2000 µg/L	89.5	75	113
EP080/071: Total Petroleum Hydrocarbons (QCLot: 794598)								
EP080: C6 - C9 Fraction	----	20	µg/L	<20	260 µg/L	97.5	75	127
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 793506)								
EP071: >C10 - C16 Fraction	----	100	µg/L	<100	2500 µg/L	102	76	114
EP071: >C16 - C34 Fraction	----	100	µg/L	<100	3500 µg/L	99.4	81	111
EP071: >C34 - C40 Fraction	----	100	µg/L	<100	1500 µg/L	87.5	77	119
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 794598)								
EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	310 µg/L	101	75	127
EP080: BTEXN (QCLot: 794598)								
EP080: Benzene	71-43-2	1	µg/L	<1	10 µg/L	88.8	70	122
EP080: Toluene	108-88-3	2	µg/L	<2	10 µg/L	86.1	69	123
EP080: Ethylbenzene	100-41-4	2	µg/L	<2	10 µg/L	82.4	70	120
EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	10 µg/L	82.7	69	121
EP080: ortho-Xylene	95-47-6	2	µg/L	<2	10 µg/L	87.6	72	122
EP080: Naphthalene	91-20-3	5	µg/L	<5	10 µg/L	99.0	70	120

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **SOIL**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Recovery Limits (%): Low	Recovery Limits (%): High
EG005T: Total Metals by ICP-AES (QCLot: 796803)							
ES1705737-021	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	92.7	70	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	97.0	70	130
		EG005T: Chromium	7440-47-3	50 mg/kg	95.6	70	130
		EG005T: Copper	7440-50-8	250 mg/kg	96.4	70	130
		EG005T: Lead	7439-92-1	250 mg/kg	97.8	70	130
		EG005T: Nickel	7440-02-0	50 mg/kg	96.4	70	130

Sub-Matrix: **SOIL**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%) MS	Recovery Limits (%) Low	High
EG005T: Total Metals by ICP-AES (QCLot: 796803) - continued							
ES1705737-021	Anonymous	EG005T: Zinc	7440-66-6	250 mg/kg	101	70	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 793423)							
ES1706075-005	S6	EP066: Total Polychlorinated biphenyls	----	1 mg/kg	115	70	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 793420)							
ES1706075-005	S6	EP068: gamma-BHC	58-89-9	0.5 mg/kg	95.6	70	130
		EP068: Heptachlor	76-44-8	0.5 mg/kg	104	70	130
		EP068: Aldrin	309-00-2	0.5 mg/kg	92.4	70	130
		EP068: Dieldrin	60-57-1	0.5 mg/kg	96.3	70	130
		EP068: Endrin	72-20-8	2 mg/kg	90.5	70	130
		EP068: 4.4`-DDT	50-29-3	2 mg/kg	99.5	70	130
EP068B: Organophosphorus Pesticides (OP) (QCLot: 793420)							
ES1706075-005	S6	EP068: Diazinon	333-41-5	0.5 mg/kg	87.2	70	130
		EP068: Chlorpyrifos-methyl	5598-13-0	0.5 mg/kg	88.1	70	130
		EP068: Pirimphos-ethyl	23505-41-1	0.5 mg/kg	81.8	70	130
		EP068: Bromophos-ethyl	4824-78-6	0.5 mg/kg	87.1	70	130
		EP068: Prothiofos	34643-46-4	0.5 mg/kg	92.6	70	130
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 796793)							
ES1706075-002	S2	EP074: Benzene	71-43-2	2.5 mg/kg	84.2	70	130
		EP074: Toluene	108-88-3	2.5 mg/kg	86.3	70	130
EP074E: Halogenated Aliphatic Compounds (QCLot: 796793)							
ES1706075-002	S2	EP074: 1.1-Dichloroethene	75-35-4	2.5 mg/kg	78.2	70	130
		EP074: Trichloroethene	79-01-6	2.5 mg/kg	75.7	70	130
EP074F: Halogenated Aromatic Compounds (QCLot: 796793)							
ES1706075-002	S2	EP074: Chlorobenzene	108-90-7	2.5 mg/kg	79.6	70	130
EP075(SIM)A: Phenolic Compounds (QCLot: 793422)							
ES1706075-005	S6	EP075(SIM): Phenol	108-95-2	10 mg/kg	99.0	70	130
		EP075(SIM): 2-Chlorophenol	95-57-8	10 mg/kg	104	70	130
		EP075(SIM): 2-Nitrophenol	88-75-5	10 mg/kg	94.2	60	130
		EP075(SIM): 4-Chloro-3-methylphenol	59-50-7	10 mg/kg	98.3	70	130
		EP075(SIM): Pentachlorophenol	87-86-5	10 mg/kg	68.8	20	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 793422)							
ES1706075-005	S6	EP075(SIM): Acenaphthene	83-32-9	10 mg/kg	103	70	130
		EP075(SIM): Pyrene	129-00-0	10 mg/kg	108	70	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 793421)							
ES1706075-005	S6	EP071: C10 - C14 Fraction	----	523 mg/kg	103	73	137
		EP071: C15 - C28 Fraction	----	2319 mg/kg	115	53	131

Sub-Matrix: **SOIL**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%) MS	Recovery Limits (%) Low	High
EP080/071: Total Petroleum Hydrocarbons (QCLot: 793421) - continued							
ES1706075-005	S6	EP071: C29 - C36 Fraction	----	1714 mg/kg	122	52	132
EP080/071: Total Petroleum Hydrocarbons (QCLot: 796792)							
ES1706075-002	S2	EP080: C6 - C9 Fraction	----	32.5 mg/kg	78.3	70	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 793421)							
ES1706075-005	S6	EP071: >C10 - C16 Fraction	----	860 mg/kg	104	73	137
		EP071: >C16 - C34 Fraction	----	3223 mg/kg	122	53	131
		EP071: >C34 - C40 Fraction	----	1058 mg/kg	106	52	132
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 796792)							
ES1706075-002	S2	EP080: C6 - C10 Fraction	C6_C10	37.5 mg/kg	71.0	70	130
EP080: BTEXN (QCLot: 796792)							
ES1706075-002	S2	EP080: Benzene	71-43-2	2.5 mg/kg	75.3	70	130
		EP080: Toluene	108-88-3	2.5 mg/kg	77.2	70	130
		EP080: Ethylbenzene	100-41-4	2.5 mg/kg	80.3	70	130
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2.5 mg/kg	73.5	70	130
		EP080: ortho-Xylene	95-47-6	2.5 mg/kg	74.6	70	130
		EP080: Naphthalene	91-20-3	2.5 mg/kg	72.4	70	130

Sub-Matrix: **WATER**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%) MS	Recovery Limits (%) Low	High
EG020F: Dissolved Metals by ICP-MS (QCLot: 800522)							
ES1706447-001	Anonymous	EG020A-F: Arsenic	7440-38-2	1 mg/L	103	70	130
		EG020A-F: Cadmium	7440-43-9	0.25 mg/L	96.5	70	130
		EG020A-F: Chromium	7440-47-3	1 mg/L	98.8	70	130
		EG020A-F: Copper	7440-50-8	1 mg/L	97.2	70	130
		EG020A-F: Lead	7439-92-1	1 mg/L	96.0	70	130
		EG020A-F: Nickel	7440-02-0	1 mg/L	96.5	70	130
		EG020A-F: Zinc	7440-66-6	1 mg/L	106	70	130
EG035F: Dissolved Mercury by FIMS (QCLot: 800523)							
ES1706075-013	RB01	EG035F: Mercury	7439-97-6	0.01 mg/L	78.4	70	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 794598)							
ES1706118-003	Anonymous	EP080: C6 - C9 Fraction	----	325 µg/L	112	70	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 794598)							
ES1706118-003	Anonymous	EP080: C6 - C10 Fraction	C6_C10	375 µg/L	112	70	130
EP080: BTEXN (QCLot: 794598)							
ES1706118-003	Anonymous	EP080: Benzene	71-43-2	25 µg/L	81.1	70	130

Sub-Matrix: **WATER**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%) MS	Recovery Limits (%) Low	Recovery Limits (%) High
EP080: BTEXN (QCLot: 794598) - continued							
ES1706118-003	Anonymous	EP080: Toluene	108-88-3	25 µg/L	90.1	70	130
		EP080: Ethylbenzene	100-41-4	25 µg/L	94.4	70	130
		EP080: meta- & para-Xylene	108-38-3 106-42-3	25 µg/L	93.3	70	130
		EP080: ortho-Xylene	95-47-6	25 µg/L	97.5	70	130
		EP080: Naphthalene	91-20-3	25 µg/L	106	70	130

ALS Environmental

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **ES1706075**	Page	: 1 of 9
Client	: **SMEC TESTING SERVICES PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR EDWIN TRUJILLO	Telephone	: +61-2-8784 8555
Project	: 21192/7558C	Date Samples Received	: 14-Mar-2017
Site	: ----	Issue Date	: 22-Mar-2017
Sampler	: ----	No. of samples received	: 14
Order number	: E-2017-132	No. of samples analysed	: 14

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **NO Matrix Spike outliers occur.**
- **For all regular sample matrices, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **NO Analysis Holding Time Outliers exist.**

Outliers : Frequency of Quality Control Samples

- **Quality Control Sample Frequency Outliers exist - please see following pages for full details.**

Outliers : Frequency of Quality Control Samples

Matrix: **SOIL**

Quality Control Sample Type	Count		Rate (%)		Quality Control Specification
Method	QC	Regular	Actual	Expected	
Laboratory Duplicates (DUP)					
Moisture Content	3	31	9.68	10.00	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER**

Quality Control Sample Type	Count		Rate (%)		Quality Control Specification
Method	QC	Regular	Actual	Expected	
Laboratory Duplicates (DUP)					
Dissolved Mercury by FIMS	0	1	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	0	6	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)					
TRH - Semivolatile Fraction	0	6	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / *Container / Client Sample ID(s)*		*Sample Date*	*Extraction / Preparation*			*Analysis*		
			Date extracted	*Due for extraction*	*Evaluation*	*Date analysed*	*Due for analysis*	*Evaluation*
EA055: Moisture Content								
Soil Glass Jar - Unpreserved (EA055-103)								
S1,	S2,	**10-Mar-2017**	**----**	----	----	**16-Mar-2017**	24-Mar-2017	✓
S3,	S4,							
S6,	S7,							
S8,	S9,							
S10,	S11,							
S12,	S13,							
TB01								
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Snap Lock Bag (EA200)								
S1,	S2,	**10-Mar-2017**	**----**	----	----	**20-Mar-2017**	06-Sep-2017	✓
S3,	S8,							
S10,	S12							

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA200N: Asbestos Quantification (non-NATA)							
Snap Lock Bag (EA200N) S1, S2, S3, S8, S10, S12	**10-Mar-2017**	**----**	----	----	**20-Mar-2017**	06-Sep-2017	✓
EG005T: Total Metals by ICP-AES							
Soil Glass Jar - Unpreserved (EG005T) S1, S2, S4, S6, S7, S8, S9, S11, S12, S13	**10-Mar-2017**	**17-Mar-2017**	06-Sep-2017	✓	**17-Mar-2017**	06-Sep-2017	✓
EP066: Polychlorinated Biphenyls (PCB)							
Soil Glass Jar - Unpreserved (EP066) S6, S12	**10-Mar-2017**	**16-Mar-2017**	24-Mar-2017	✓	**17-Mar-2017**	25-Apr-2017	✓
EP068A: Organochlorine Pesticides (OC)							
Soil Glass Jar - Unpreserved (EP068) S1, S2, S3, S6, S7, S8, S9, S10, S11, S12, S13	**10-Mar-2017**	**16-Mar-2017**	24-Mar-2017	✓	**17-Mar-2017**	25-Apr-2017	✓
EP068B: Organophosphorus Pesticides (OP)							
Soil Glass Jar - Unpreserved (EP068) S1, S2, S3, S6, S7, S8, S9, S10, S11, S12, S13	**10-Mar-2017**	**16-Mar-2017**	24-Mar-2017	✓	**17-Mar-2017**	25-Apr-2017	✓
EP074A: Monocyclic Aromatic Hydrocarbons							
Soil Glass Jar - Unpreserved (EP074) S2, S6, S12	**10-Mar-2017**	**17-Mar-2017**	17-Mar-2017	✓	**17-Mar-2017**	17-Mar-2017	✓
EP074B: Oxygenated Compounds							
Soil Glass Jar - Unpreserved (EP074) S2, S6, S12	**10-Mar-2017**	**17-Mar-2017**	17-Mar-2017	✓	**17-Mar-2017**	17-Mar-2017	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP074C: Sulfonated Compounds							
Soil Glass Jar - Unpreserved (EP074) S2, S6, S12	**10-Mar-2017**	**17-Mar-2017**	17-Mar-2017	✓	**17-Mar-2017**	17-Mar-2017	✓
EP074D: Fumigants							
Soil Glass Jar - Unpreserved (EP074) S2, S6, S12	**10-Mar-2017**	**17-Mar-2017**	17-Mar-2017	✓	**17-Mar-2017**	17-Mar-2017	✓
EP074E: Halogenated Aliphatic Compounds							
Soil Glass Jar - Unpreserved (EP074) S2, S6, S12	**10-Mar-2017**	**17-Mar-2017**	17-Mar-2017	✓	**17-Mar-2017**	17-Mar-2017	✓
EP074F: Halogenated Aromatic Compounds							
Soil Glass Jar - Unpreserved (EP074) S2, S6, S12	**10-Mar-2017**	**17-Mar-2017**	17-Mar-2017	✓	**17-Mar-2017**	17-Mar-2017	✓
EP074G: Trihalomethanes							
Soil Glass Jar - Unpreserved (EP074) S2, S6, S12	**10-Mar-2017**	**17-Mar-2017**	17-Mar-2017	✓	**17-Mar-2017**	17-Mar-2017	✓
EP074H: Naphthalene							
Soil Glass Jar - Unpreserved (EP074) S2, S6, S12	**10-Mar-2017**	**17-Mar-2017**	17-Mar-2017	✓	**17-Mar-2017**	17-Mar-2017	✓
EP075(SIM)A: Phenolic Compounds							
Soil Glass Jar - Unpreserved (EP075(SIM)) S6, S12	**10-Mar-2017**	**16-Mar-2017**	24-Mar-2017	✓	**17-Mar-2017**	25-Apr-2017	✓
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons							
Soil Glass Jar - Unpreserved (EP075(SIM)) S6, S10, S12	**10-Mar-2017**	**16-Mar-2017**	24-Mar-2017	✓	**17-Mar-2017**	25-Apr-2017	✓
EP080/071: Total Petroleum Hydrocarbons							
Soil Glass Jar - Unpreserved (EP071) S1, S2, S4, S6, S10, S12	**10-Mar-2017**	**16-Mar-2017**	24-Mar-2017	✓	**17-Mar-2017**	25-Apr-2017	✓
Soil Glass Jar - Unpreserved (EP080) S1, S2, S4, S6, S10, S12, TB01	**10-Mar-2017**	**17-Mar-2017**	24-Mar-2017	✓	**17-Mar-2017**	24-Mar-2017	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Soil Glass Jar - Unpreserved (EP071) S1, S2, S4, S6, S10, S12	**10-Mar-2017**	**16-Mar-2017**	24-Mar-2017	✓	**17-Mar-2017**	25-Apr-2017	✓
Soil Glass Jar - Unpreserved (EP080) S1, S2, S4, S6, S10, S12, TB01	**10-Mar-2017**	**17-Mar-2017**	24-Mar-2017	✓	**17-Mar-2017**	24-Mar-2017	✓
EP080: BTEXN							
Soil Glass Jar - Unpreserved (EP080) S1, S2, S4, S6, S10, S12, TB01	**10-Mar-2017**	**17-Mar-2017**	24-Mar-2017	✓	**17-Mar-2017**	24-Mar-2017	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EG020F: Dissolved Metals by ICP-MS							
Clear Plastic Bottle - Nitric Acid; Filtered (EG020A-F) RB01	**10-Mar-2017**	**----**	----	----	**21-Mar-2017**	06-Sep-2017	✓
EG035F: Dissolved Mercury by FIMS							
Clear Plastic Bottle - Nitric Acid; Filtered (EG035F) RB01	**10-Mar-2017**	**----**	----	----	**21-Mar-2017**	07-Apr-2017	✓
EP080/071: Total Petroleum Hydrocarbons							
Amber Glass Bottle - Unpreserved (EP071) RB01	**10-Mar-2017**	**16-Mar-2017**	17-Mar-2017	✓	**16-Mar-2017**	25-Apr-2017	✓
Amber VOC Vial - Sulfuric Acid (EP080) RB01	**10-Mar-2017**	**16-Mar-2017**	24-Mar-2017	✓	**16-Mar-2017**	24-Mar-2017	✓
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Amber Glass Bottle - Unpreserved (EP071) RB01	**10-Mar-2017**	**16-Mar-2017**	17-Mar-2017	✓	**16-Mar-2017**	25-Apr-2017	✓
Amber VOC Vial - Sulfuric Acid (EP080) RB01	**10-Mar-2017**	**16-Mar-2017**	24-Mar-2017	✓	**16-Mar-2017**	24-Mar-2017	✓
EP080: BTEXN							
Amber VOC Vial - Sulfuric Acid (EP080) RB01	**10-Mar-2017**	**16-Mar-2017**	24-Mar-2017	✓	**16-Mar-2017**	24-Mar-2017	✓

Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
Moisture Content	EA055-103	3	31	9.68	10.00	×	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	1	6	16.67	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	2	14	14.29	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	5	20.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	14	14.29	10.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	10	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	13	15.38	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	2	9	22.22	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
PAH/Phenols (SIM)	EP075(SIM)	1	6	16.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	14	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	5	20.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	14	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	10	10.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	9	11.11	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
PAH/Phenols (SIM)	EP075(SIM)	1	6	16.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	14	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	5	20.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	14	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	10	10.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	9	11.11	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
PAH/Phenols (SIM)	EP075(SIM)	1	6	16.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	14	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	5	20.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	14	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	10	10.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	9	11.11	5.00	✓	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	Evaluation	

Matrix: **WATER**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Dissolved Mercury by FIMS	EG035F	0	1	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	2	1	**200.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	6	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Dissolved Mercury by FIMS	EG035F	1	1	**100.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	1	1	**100.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	6	**16.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Dissolved Mercury by FIMS	EG035F	1	1	**100.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	1	1	**100.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	6	**16.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Dissolved Mercury by FIMS	EG035F	1	1	**100.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	1	1	**100.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	6	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055-103	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 103-105 degrees C. This method is compliant with NEPM (2013) Schedule B(3) Section 7.1 and Table 1 (14 day holding time).
Asbestos Identification in Soils	EA200	SOIL	AS 4964 - 2004 Method for the qualitative identification of asbestos in bulk samples Analysis by Polarised Light Microscopy including dispersion staining
Asbestos Classification and Quantitation per NEPM 2013	* EA200N	SOIL	Asbestos Classification and Quantitation per NEPM 2013 with Confirmation of Identification by AS 4964 - 2004 Gravimetric determination of Asbestos Containing Material, Friable Asbestos and sample weight and calculation of percentage concentrations per NEPM protocols. Friable Asbestos is reported as the equivalent weight in the sample received after accounting for sub-sampling (where applicable for the <7mm and/or <2mm fractions).
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM (2013) Schedule B(3)
Polychlorinated Biphenyls (PCB)	EP066	SOIL	In house: Referenced to USEPA SW 846 - 8270D Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (2013) Schedule B(3) (Method 504)
Pesticides by GCMS	EP068	SOIL	In house: Referenced to USEPA SW 846 - 8270D Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM (2013) Schedule B(3) (Method 504,505)
TRH - Semivolatile Fraction	EP071	SOIL	In house: Referenced to USEPA SW 846 - 8015A Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40.
Volatile Organic Compounds	EP074	SOIL	In house: Referenced to USEPA SW 846 - 8260B Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (2013) Schedule B(3) (Method 501)
PAH/Phenols (SIM)	EP075(SIM)	SOIL	In house: Referenced to USEPA SW 846 - 8270D Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (2013) Schedule B(3) (Method 502 and 507)
TRH Volatiles/BTEX	EP080	SOIL	In house: Referenced to USEPA SW 846 - 8260B Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve.
Dissolved Metals by ICP-MS - Suite A	EG020A-F	WATER	In house: Referenced to APHA 3125; USEPA SW846 - 6020, ALS QWI-EN/EG020. Samples are 0.45µm filtered prior to analysis. The ICPMS technique utilizes a highly efficient argon plasma to ionize selected elements. Ions are then passed into a high vacuum mass spectrometer, which separates the analytes based on their distinct mass to charge ratios prior to their measurement by a discrete dynode ion detector.

Analytical Methods	Method	Matrix	Method Descriptions
Dissolved Mercury by FIMS	EG035F	WATER	In house: Referenced to AS 3550, APHA 3112 Hg - B (Flow-injection (SnCl2)(Cold Vapour generation) AAS) Samples are 0.45µm filtered prior to analysis. FIM-AAS is an automated flameless atomic absorption technique. A bromate/bromide reagent is used to oxidise any organic mercury compounds in the filtered sample. The ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM (2013) Schedule B(3)
TRH - Semivolatile Fraction	EP071	WATER	In house: Referenced to USEPA SW 846 - 8015A The sample extract is analysed by Capillary GC/FID and quantification is by comparison against an established 5 point calibration curve of n-Alkane standards. This method is compliant with the QC requirements of NEPM (2013) Schedule B(3)
TRH Volatiles/BTEX	EP080	WATER	In house: Referenced to USEPA SW 846 - 8260B Water samples are directly purged prior to analysis by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. Alternatively, a sample is equilibrated in a headspace vial and a portion of the headspace determined by GCMS analysis. This method is compliant with the QC requirements of NEPM (2013) Schedule B(3)

Preparation Methods	Method	Matrix	Method Descriptions
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM (2013) Schedule B(3) (Method 202)
Methanolic Extraction of Soils for Purge and Trap	* ORG16	SOIL	In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.
Digestion for Total Recoverable Metals	EN25	WATER	In house: Referenced to USEPA SW846-3005. Method 3005 is a Nitric/Hydrochloric acid digestion procedure used to prepare surface and ground water samples for analysis by ICPAES or ICPMS. This method is compliant with NEPM (2013) Schedule B(3)
Separatory Funnel Extraction of Liquids	ORG14	WATER	In house: Referenced to USEPA SW 846 - 3510B 100 mL to 1L of sample is transferred to a separatory funnel and serially extracted three times using 60mL DCM for each extract. The resultant extracts are combined, dehydrated and concentrated for analysis. This method is compliant with NEPM (2013) Schedule B(3) . ALS default excludes sediment which may be resident in the container.
Volatiles Water Preparation	ORG16-W	WATER	A 5 mL aliquot or 5 mL of a diluted sample is added to a 40 mL VOC vial for sparging.

ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **EB1705237**	Page	: 1 of 5
Client	: **SMEC TESTING SERVICES PTY LTD**	Laboratory	: Environmental Division Brisbane
Contact	: MR EDWIN TRUJILLO	Contact	: Customer Services EB
Address	: P O BOX 6989 WETHERILL PARK NSW, AUSTRALIA 2164	Address	: 2 Byth Street Stafford QLD Australia 4053
Telephone	: ----	Telephone	: +61-7-3243 7222
Project	: 21192/7558C	Date Samples Received	: 17-Mar-2017 09:35
Order number	: E-2017-132	Date Analysis Commenced	: 18-Mar-2017
C-O-C number	: 21192 - COC1	Issue Date	: 21-Mar-2017 11:39
Sampler	: ----		
Site	: ----		
Quote number	: SYBQ/234/16		
No. of samples received	: 1		
No. of samples analysed	: 1		

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Accreditation No. 825
Accredited for compliance with ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Amanda Conkie	Organic Chemist	Brisbane Organics, Stafford, QLD
Andrew Epps	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- EP080: High LCS recovery deemed acceptable as all associated analyte results are less than LOR.

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S5	----	----	----	----
			Client sampling date / time	[10-Mar-2017]	----	----	----	----
Compound	CAS Number	LOR	Unit	EB1705237-001	--------	--------	--------	--------
				Result	----	----	----	----
EA055: Moisture Content								
Moisture Content (dried @ 103°C)	----	1	%	23.5	----	----	----	----
EG005T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	13	----	----	----	----
Cadmium	7440-43-9	1	mg/kg	<1	----	----	----	----
Chromium	7440-47-3	2	mg/kg	24	----	----	----	----
Copper	7440-50-8	5	mg/kg	41	----	----	----	----
Lead	7439-92-1	5	mg/kg	630	----	----	----	----
Nickel	7440-02-0	2	mg/kg	6	----	----	----	----
Zinc	7440-66-6	5	mg/kg	404	----	----	----	----
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	1.1	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	----	----	----	----
C10 - C14 Fraction	----	50	mg/kg	<50	----	----	----	----
C15 - C28 Fraction	----	100	mg/kg	<100	----	----	----	----
C29 - C36 Fraction	----	100	mg/kg	<100	----	----	----	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg	<50	----	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	----	----	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	----	----	----	----
>C10 - C16 Fraction	----	50	mg/kg	<50	----	----	----	----
>C16 - C34 Fraction	----	100	mg/kg	<100	----	----	----	----
>C34 - C40 Fraction	----	100	mg/kg	<100	----	----	----	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	<50	----	----	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	----	----	----	----
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	----	----	----	----
Toluene	108-88-3	0.5	mg/kg	<0.5	----	----	----	----
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	----	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	----	----	----	----
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	----	----	----	----
^ Sum of BTEX	----	0.2	mg/kg	<0.2	----	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S5	----	----	----	----
			Client sampling date / time	[10-Mar-2017]	----	----	----	----
Compound	CAS Number	LOR	Unit	EB1705237-001	--------	--------	--------	--------
				Result	----	----	----	----
EP080: BTEXN - Continued								
^ **Total Xylenes**	1330-20-7	0.5	mg/kg	<0.5	----	----	----	----
Naphthalene	91-20-3	1	mg/kg	<1	----	----	----	----
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	**100**	----	----	----	----
Toluene-D8	2037-26-5	0.2	%	**97.4**	----	----	----	----
4-Bromofluorobenzene	460-00-4	0.2	%	**107**	----	----	----	----

Surrogate Control Limits

Sub-Matrix: **SOIL**		Recovery Limits (%)	
Compound	*CAS Number*	*Low*	*High*
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	53	134
Toluene-D8	2037-26-5	60	131
4-Bromofluorobenzene	460-00-4	59	127

ALS Environmental

QUALITY CONTROL REPORT

Work Order	: **EB1705237**	Page	: 1 of 5
Client	: **SMEC TESTING SERVICES PTY LTD**	Laboratory	: Environmental Division Brisbane
Contact	: MR EDWIN TRUJILLO	Contact	: Customer Services EB
Address	: P O BOX 6989 WETHERILL PARK NSW, AUSTRALIA 2164	Address	: 2 Byth Street Stafford QLD Australia 4053
Telephone	: ----	Telephone	: +61-7-3243 7222
Project	: 21192/7558C	Date Samples Received	: 17-Mar-2017
Order number	: E-2017-132	Date Analysis Commenced	: 18-Mar-2017
C-O-C number	: 21192 - COC1	Issue Date	: 21-Mar-2017
Sampler	: ----		
Site	: ----		
Quote number	: SYBQ/234/16		
No. of samples received	: 1		
No. of samples analysed	: 1		

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Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Amanda Conkie	Organic Chemist	Brisbane Organics, Stafford, QLD
Andrew Epps	Senior Inorganic Chemist	Brisbane Inorganics, Stafford, QLD

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Client sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Recovery Limits (%)*
EA055: Moisture Content (QC Lot: 798224)									
EB1705067-001	Anonymous	EA055-103: Moisture Content (dried @ 103°C)	----	1	%	25.8	24.3	5.94	0% - 20%
EG005T: Total Metals by ICP-AES (QC Lot: 797935)									
EB1705081-001	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.00	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	11	11	0.00	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	6	8	21.0	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	6	11	55.5	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	57	80	33.9	0% - 50%
		EG005T: Lead	7439-92-1	5	mg/kg	52	46	11.9	0% - 50%
		EG005T: Zinc	7440-66-6	5	mg/kg	246	297	19.0	0% - 20%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 797934)									
EB1705081-001	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.00	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 797931)									
EB1705081-002	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.00	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 798221)									
EB1705081-001	Anonymous	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.00	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 797931)									
EB1705081-002	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.00	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 798221)									
EB1705081-001	Anonymous	EP071: >C16 - C34 Fraction	----	100	mg/kg	160	130	23.3	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.00	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Client sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Recovery Limits (%)*
EP080: BTEXN (QC Lot: 797931)									
EB1705081-002	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.00	No Limit

Method Blank (MB) and Laboratory Control Spike (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Spike (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **SOIL**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Recovery Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EG005T: Total Metals by ICP-AES (QCLot: 797935)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	118.9 mg/kg	88.2	84	123
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	1.87125 mg/kg	92.5	88	117
EG005T: Chromium	7440-47-3	2	mg/kg	<2	22.7 mg/kg	96.1	83	125
EG005T: Copper	7440-50-8	5	mg/kg	<5	55 mg/kg	96.8	86	122
EG005T: Lead	7439-92-1	5	mg/kg	<5	72.1 mg/kg	99.7	84	119
EG005T: Nickel	7440-02-0	2	mg/kg	<2	16.6 mg/kg	93.2	89	126
EG005T: Zinc	7440-66-6	5	mg/kg	<5	182.3 mg/kg	101	87	127
EG035T: Total Recoverable Mercury by FIMS (QCLot: 797934)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	0.09821 mg/kg	95.2	78	122
EP080/071: Total Petroleum Hydrocarbons (QCLot: 797931)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	16 mg/kg	# 121	66	120
EP080/071: Total Petroleum Hydrocarbons (QCLot: 798221)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	318 mg/kg	88.6	79	123
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	531 mg/kg	97.8	77	123
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	----	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 797931)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	18.5 mg/kg	119	66	119
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 798221)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	428 mg/kg	94.6	81	122
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	395 mg/kg	90.8	74	122
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	----	----	----	----
EP080: BTEXN (QCLot: 797931)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	# 108	73	105
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	# 107	73	105
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	# 106	67	104
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	# 107	66	106
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	104	68	105
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	98.3	72	115

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Recovery Limits (%)	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG005T: Total Metals by ICP-AES (QCLot: 797935)							
EB1705081-002	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	88.1	70	130
		EG005T: Cadmium	7440-43-9	25 mg/kg	100	70	130
		EG005T: Chromium	7440-47-3	50 mg/kg	102	70	130
		EG005T: Copper	7440-50-8	50 mg/kg	85.4	70	130
		EG005T: Lead	7439-92-1	50 mg/kg	73.0	70	130
		EG005T: Nickel	7440-02-0	50 mg/kg	102	70	130
		EG005T: Zinc	7440-66-6	50 mg/kg	# Not Determined	70	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 797934)							
EB1705081-002	Anonymous	EG035T: Mercury	7439-97-6	2.5 mg/kg	108	70	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 797931)							
EB1705081-001	Anonymous	EP080: C6 - C9 Fraction	----	8 mg/kg	97.1	70	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 798221)							
EB1705081-002	Anonymous	EP071: C10 - C14 Fraction	----	318 mg/kg	92.3	70	130
		EP071: C15 - C28 Fraction	----	531 mg/kg	101	70	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 797931)							
EB1705081-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	8 mg/kg	100	70	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 798221)							
EB1705081-002	Anonymous	EP071: >C10 - C16 Fraction	----	428 mg/kg	97.8	70	130
		EP071: >C16 - C34 Fraction	----	395 mg/kg	95.2	70	130
EP080: BTEXN (QCLot: 797931)							
EB1705081-001	Anonymous	EP080: Benzene	71-43-2	2 mg/kg	90.5	70	130
		EP080: Toluene	108-88-3	2 mg/kg	88.4	70	130

ALS Environmental

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **EB1705237**	Page	: 1 of 5
Client	: **SMEC TESTING SERVICES PTY LTD**	Laboratory	: Environmental Division Brisbane
Contact	: MR EDWIN TRUJILLO	Telephone	: +61-7-3243 7222
Project	: 21192/7558C	Date Samples Received	: 17-Mar-2017
Site	: ----	Issue Date	: 21-Mar-2017
Sampler	: ----	No. of samples received	: 1
Order number	: E-2017-132	No. of samples analysed	: 1

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **Laboratory Control outliers exist - please see following pages for full details.**
- **Matrix Spike outliers exist - please see following pages for full details.**
- **For all regular sample matrices, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **NO Analysis Holding Time Outliers exist.**

Outliers : Frequency of Quality Control Samples

- **NO Quality Control Sample Frequency Outliers exist.**

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **SOIL**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Laboratory Control Spike (LCS) Recoveries							
EP080/071: Total Petroleum Hydrocarbons	QC-797931-002	----	**C6 - C9 Fraction**	----	121 %	66-120%	**Recovery greater than upper control limit**
EP080: BTEXN	QC-797931-002	----	**Benzene**	71-43-2	108 %	73-105%	**Recovery greater than upper control limit**
EP080: BTEXN	QC-797931-002	----	**Toluene**	108-88-3	107 %	73-105%	**Recovery greater than upper control limit**
EP080: BTEXN	QC-797931-002	----	**Ethylbenzene**	100-41-4	106 %	67-104%	**Recovery greater than upper control limit**
EP080: BTEXN	QC-797931-002	----	**meta- & para-Xylene**	108-38-3 106-42-3	107 %	66-106%	**Recovery greater than upper control limit**
Matrix Spike (MS) Recoveries							
EG005T: Total Metals by ICP-AES	EB1705081--002	Anonymous	**Zinc**	7440-66-6	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / *Container / Client Sample ID(s)*	*Sample Date*	*Extraction / Preparation*			*Analysis*		
		Date extracted	*Due for extraction*	*Evaluation*	*Date analysed*	*Due for analysis*	*Evaluation*
EA055: Moisture Content							
Soil Glass Jar - Unpreserved (EA055-103)							
S5	**10-Mar-2017**	**----**	----	----	**18-Mar-2017**	24-Mar-2017	✓
EG005T: Total Metals by ICP-AES							
Soil Glass Jar - Unpreserved (EG005T)							
S5	**10-Mar-2017**	**18-Mar-2017**	06-Sep-2017	✓	**19-Mar-2017**	06-Sep-2017	✓
EG035T: Total Recoverable Mercury by FIMS							
Soil Glass Jar - Unpreserved (EG035T)							
S5	**10-Mar-2017**	**18-Mar-2017**	07-Apr-2017	✓	**20-Mar-2017**	07-Apr-2017	✓
EP080/071: Total Petroleum Hydrocarbons							
Soil Glass Jar - Unpreserved (EP080)							
S5	**10-Mar-2017**	**18-Mar-2017**	24-Mar-2017	✓	**20-Mar-2017**	24-Mar-2017	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Soil Glass Jar - Unpreserved (EP080)							
S5	**10-Mar-2017**	**18-Mar-2017**	24-Mar-2017	✓	**20-Mar-2017**	24-Mar-2017	✓
EP080: BTEXN							
Soil Glass Jar - Unpreserved (EP080)							
S5	**10-Mar-2017**	**18-Mar-2017**	24-Mar-2017	✓	**20-Mar-2017**	24-Mar-2017	✓

Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Moisture Content	EA055-103	1	8	**12.50**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	1	5	**20.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	5	**20.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	3	**33.33**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	3	**33.33**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Total Mercury by FIMS	EG035T	1	5	**20.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	5	**20.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	3	**33.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	3	**33.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Total Mercury by FIMS	EG035T	1	5	**20.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	5	**20.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	3	**33.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	3	**33.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Total Mercury by FIMS	EG035T	1	5	**20.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	1	5	**20.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	3	**33.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	3	**33.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	*Method*	*Matrix*	*Method Descriptions*
Moisture Content	EA055-103	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 103-105 degrees C. This method is compliant with NEPM (2013) Schedule B(3) Section 7.1 and Table 1 (14 day holding time).
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM (2013) Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to AS 3550, APHA 3112 Hg - B (Flow-injection (SnCl2)(Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM (2013) Schedule B(3)
TRH - Semivolatile Fraction	EP071	SOIL	In house: Referenced to USEPA SW 846 - 8015A Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40.
TRH Volatiles/BTEX	EP080	SOIL	In house: Referenced to USEPA SW 846 - 8260B Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve.

Preparation Methods	*Method*	*Matrix*	*Method Descriptions*
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM (2013) Schedule B(3) (Method 202)
Methanolic Extraction of Soils for Purge and Trap	ORG16	SOIL	In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.

ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **ES1706075**	Page	: 1 of 23
Amendment	: **1**		
Client	: **SMEC TESTING SERVICES PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR EDWIN TRUJILLO	Contact	: Customer Services ES
Address	: P O BOX 6989 WETHERILL PARK NSW, AUSTRALIA 2164	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: ----	Telephone	: +61-2-8784 8555
Project	: 21192/7558C	Date Samples Received	: 14-Mar-2017 20:50
Order number	: E-2017-132	Date Analysis Commenced	: 16-Mar-2017
C-O-C number	: ----	Issue Date	: 10-May-2017 17:42
Sampler	: ----		
Site	: ----		
Quote number	: SYBQ/234/16		
No. of samples received	: 14		
No. of samples analysed	: 14		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Descriptive Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Celine Conceicao	Senior Spectroscopist	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Sanjeshni Jyoti	Senior Chemist Volatiles	Sydney Organics, Smithfield, NSW
Shaun Spooner	Asbestos Identifier	Newcastle - Asbestos, Mayfield West, NSW
Wisam Marassa	Inorganics Coordinator	Sydney Inorganics, Smithfield, NSW

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- EP068: Positive results has been confirmed by re-extraction and re-analysis.
- Amendment (09/05/2017): This report has been amended and re-released to allow the reporting of additional analytical data.
- EA200N: Asbestos weights and percentages are not covered under the Scope of NATA Accreditation.
  Weights of Asbestos are based on extracted bulk asbestos, fibre bundles, and/or ACM and do not include respirable fibres (if present)
  The Friable Asbestos weight is calculated from the extracted Fibrous Asbestos and Asbestos Fines as an equivalent weight of 100% Asbestos
  Percentages for Asbestos content in ACM are based on the 2013 NEPM default values.
  All calculations of percentage Asbestos under this method are approximate and should be used as a guide only.
- EA200 'Am' Amosite (brown asbestos)
- EA200 'Cr' Crocidolite (blue asbestos)
- EA200 'Trace' - Asbestos fibres ("Free Fibres") detected by trace analysis per AS4964. The result can be interpreted that the sample contains detectable 'respirable' asbestos fibres
- EA200: Asbestos Identification Samples were analysed by Polarised Light Microscopy including dispersion staining.
- EA200 Legend
- EA200 'Ch' Chrysotile (white asbestos)
- EA200: 'UMF' Unknown Mineral Fibres. "-" indicates fibres detected may or may not be asbestos fibres. Confirmation by alternative techniques is recommended.
- EA200: Negative results for vinyl tiles should be confirmed by an independent analytical technique.
- EA200N: ALS laboratory procedures and methods used for the identification and quantitation of asbestos are consistent with AS4964-2004 and the requirements of the 2013 NEPM for Assessment of Site Contamination
- Benzo(a)pyrene Toxicity Equivalent Quotient (TEQ) is the sum total of the concentration of the eight carcinogenic PAHs multiplied by their Toxicity Equivalence Factor (TEF) relative to Benzo(a)pyrene. TEF values are provided in brackets as follows: Benz(a)anthracene (0.1), Chrysene (0.01), Benzo(b+j) & Benzo(k)fluoranthene (0.1), Benzo(a)pyrene (1.0), Indeno(1.2.3.cd)pyrene (0.1), Dibenz(a.h)anthracene (1.0), Benzo(g.h.i)perylene (0.01). Less than LOR results for 'TEQ Zero' are treated as zero, for 'TEQ 1/2LOR' are treated as half the reported LOR, and for 'TEQ LOR' are treated as being equal to the reported LOR.
  Note: TEQ 1/2LOR and TEQ LOR will calculate as 0.6mg/Kg and 1.2mg/Kg respectively for samples with non-detects for all of the eight TEQ PAHs.
- EA200: For samples larger than 30g, the <2mm fraction may be sub-sampled prior to trace analysis as outlined in ISO23909:2008(E) Sect 6.3.2-2
- EA200: 'Yes' - Asbestos detected by polarised light microscopy including dispersion staining.
- EA200: 'No*' - No asbestos found, at the reporting limit of 0.1g/kg, by polarised light microscopy including dispersion staining. Asbestos material was detected and positively identified at concentrations estimated to be below 0.1g/kg.
- EA200: 'No' - No asbestos found at the reporting limit 0.1g/kg, by polarised light microscopy including dispersion staining.

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S1	S2	S3	S4	S6
			Client sampling date / time	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]
Compound	CAS Number	LOR	Unit	ES1706075-001	ES1706075-002	ES1706075-003	ES1706075-004	ES1706075-005
				Result	Result	Result	Result	Result
EA055: Moisture Content								
Moisture Content (dried @ 103°C)	----	1	%	17.0	19.9	22.0	20.8	21.1
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	No	No	No	----	----
Asbestos Type	1332-21-4	-	--	-	-	-	----	----
Sample weight (dry)	----	0.01	g	230	172	181	----	----
APPROVED IDENTIFIER:	----	-	--	S.SPOONER	S.SPOONER	S.SPOONER	----	----
EA200N: Asbestos Quantification (non-NATA)								
ø Free Fibres	----	5	Fibres	No	No	No	----	----
ø Friable Asbestos	1332-21-4	0.0004	g	<0.0004	<0.0004	<0.0004	----	----
ø Friable Asbestos (as Asbestos in Soil)	1332-21-4	0.001	% (w/w)	<0.001	<0.001	<0.001	----	----
ø Asbestos Containing Material	1332-21-4	0.1	g	<0.1	<0.1	<0.1	----	----
ø Asbestos Containing Material (as 15% Asbestos in ACM >7mm)	1332-21-4	0.01	% (w/w)	<0.01	<0.01	<0.01	----	----
ø Weight Used for % Calculation	----	0.0001	kg	0.230	0.172	0.181	----	----
EG005T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	12	6	12	10	12
Cadmium	7440-43-9	1	mg/kg	2	2	<1	2	2
Chromium	7440-47-3	2	mg/kg	22	32	25	23	24
Copper	7440-50-8	5	mg/kg	35	<5	47	38	29
Lead	7439-92-1	5	mg/kg	292	22	407	405	365
Nickel	7440-02-0	2	mg/kg	4	<2	8	5	5
Zinc	7440-66-6	5	mg/kg	231	11	735	314	398
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	0.1	<0.1	0.7	0.9	1.3
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	----	----	----	----	<0.1
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S1	S2	S3	S4	S6
			Client sampling date / time	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]
Compound	CAS Number	LOR	Unit	ES1706075-001	ES1706075-002	ES1706075-003	ES1706075-004	ES1706075-005
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	**0.06**	----	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	**0.35**	----	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	----	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	----	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	**0.41**	----	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	----	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	----	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	----	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S1	S2	S3	S4	S6
			Client sampling date / time	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]
Compound	CAS Number	LOR	Unit	ES1706075-001	ES1706075-002	ES1706075-003	ES1706075-004	ES1706075-005
				Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued								
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	----	<0.05
EP074A: Monocyclic Aromatic Hydrocarbons								
Benzene	71-43-2	0.2	mg/kg	----	<0.2	----	----	<0.2
Toluene	108-88-3	0.5	mg/kg	----	<0.5	----	----	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	----	<0.5	----	----	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	----	<0.5	----	----	<0.5
Styrene	100-42-5	0.5	mg/kg	----	<0.5	----	----	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	----	<0.5	----	----	<0.5
Isopropylbenzene	98-82-8	0.5	mg/kg	----	<0.5	----	----	<0.5
n-Propylbenzene	103-65-1	0.5	mg/kg	----	<0.5	----	----	<0.5
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	----	<0.5	----	----	<0.5
sec-Butylbenzene	135-98-8	0.5	mg/kg	----	<0.5	----	----	<0.5
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	----	<0.5	----	----	<0.5
tert-Butylbenzene	98-06-6	0.5	mg/kg	----	<0.5	----	----	<0.5
p-Isopropyltoluene	99-87-6	0.5	mg/kg	----	<0.5	----	----	<0.5
n-Butylbenzene	104-51-8	0.5	mg/kg	----	<0.5	----	----	<0.5
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	----	<5	----	----	<5
2-Butanone (MEK)	78-93-3	5	mg/kg	----	<5	----	----	<5
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	----	<5	----	----	<5
2-Hexanone (MBK)	591-78-6	5	mg/kg	----	<5	----	----	<5
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg	----	<0.5	----	----	<0.5
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	----	<0.5	----	----	<0.5
1.2-Dichloropropane	78-87-5	0.5	mg/kg	----	<0.5	----	----	<0.5
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	----	<0.5	----	----	<0.5
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	----	<0.5	----	----	<0.5
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	----	<0.5	----	----	<0.5
EP074E: Halogenated Aliphatic Compounds								

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S1	S2	S3	S4	S6
			Client sampling date / time	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]
Compound	CAS Number	LOR	Unit	ES1706075-001	ES1706075-002	ES1706075-003	ES1706075-004	ES1706075-005
				Result	Result	Result	Result	Result
EP074E: Halogenated Aliphatic Compounds - Continued								
Dichlorodifluoromethane	75-71-8	5	mg/kg	----	<5	----	----	<5
Chloromethane	74-87-3	5	mg/kg	----	<5	----	----	<5
Vinyl chloride	75-01-4	5	mg/kg	----	<5	----	----	<5
Bromomethane	74-83-9	5	mg/kg	----	<5	----	----	<5
Chloroethane	75-00-3	5	mg/kg	----	<5	----	----	<5
Trichlorofluoromethane	75-69-4	5	mg/kg	----	<5	----	----	<5
1.1-Dichloroethene	75-35-4	0.5	mg/kg	----	<0.5	----	----	<0.5
Iodomethane	74-88-4	0.5	mg/kg	----	<0.5	----	----	<0.5
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	----	<0.5	----	----	<0.5
1.1-Dichloroethane	75-34-3	0.5	mg/kg	----	<0.5	----	----	<0.5
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	----	<0.5	----	----	<0.5
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	----	<0.5	----	----	<0.5
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	----	<0.5	----	----	<0.5
Carbon Tetrachloride	56-23-5	0.5	mg/kg	----	<0.5	----	----	<0.5
1.2-Dichloroethane	107-06-2	0.5	mg/kg	----	<0.5	----	----	<0.5
Trichloroethene	79-01-6	0.5	mg/kg	----	<0.5	----	----	<0.5
Dibromomethane	74-95-3	0.5	mg/kg	----	<0.5	----	----	<0.5
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	----	<0.5	----	----	<0.5
1.3-Dichloropropane	142-28-9	0.5	mg/kg	----	<0.5	----	----	<0.5
Tetrachloroethene	127-18-4	0.5	mg/kg	----	<0.5	----	----	<0.5
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	----	<0.5	----	----	<0.5
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	----	<0.5	----	----	<0.5
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	----	<0.5	----	----	<0.5
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	----	<0.5	----	----	<0.5
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	----	<0.5	----	----	<0.5
Pentachloroethane	76-01-7	0.5	mg/kg	----	<0.5	----	----	<0.5
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	----	<0.5	----	----	<0.5
Hexachlorobutadiene	87-68-3	0.5	mg/kg	----	<0.5	----	----	<0.5
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	----	<0.5	----	----	<0.5
Bromobenzene	108-86-1	0.5	mg/kg	----	<0.5	----	----	<0.5
2-Chlorotoluene	95-49-8	0.5	mg/kg	----	<0.5	----	----	<0.5
4-Chlorotoluene	106-43-4	0.5	mg/kg	----	<0.5	----	----	<0.5
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	----	<0.5	----	----	<0.5
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	----	<0.5	----	----	<0.5

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S1	S2	S3	S4	S6
			Client sampling date / time	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]
Compound	CAS Number	LOR	Unit	ES1706075-001	ES1706075-002	ES1706075-003	ES1706075-004	ES1706075-005
				Result	Result	Result	Result	Result
EP074F: Halogenated Aromatic Compounds - Continued								
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	----	<0.5	----	----	<0.5
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	----	<0.5	----	----	<0.5
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	----	<0.5	----	----	<0.5
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	----	<0.5	----	----	<0.5
Bromodichloromethane	75-27-4	0.5	mg/kg	----	<0.5	----	----	<0.5
Dibromochloromethane	124-48-1	0.5	mg/kg	----	<0.5	----	----	<0.5
Bromoform	75-25-2	0.5	mg/kg	----	<0.5	----	----	<0.5
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	----	<1	----	----	<1
EP075(SIM)A: Phenolic Compounds								
Phenol	108-95-2	0.5	mg/kg	----	----	----	----	<0.5
2-Chlorophenol	95-57-8	0.5	mg/kg	----	----	----	----	<0.5
2-Methylphenol	95-48-7	0.5	mg/kg	----	----	----	----	<0.5
3- & 4-Methylphenol	1319-77-3	1	mg/kg	----	----	----	----	<1
2-Nitrophenol	88-75-5	0.5	mg/kg	----	----	----	----	<0.5
2.4-Dimethylphenol	105-67-9	0.5	mg/kg	----	----	----	----	<0.5
2.4-Dichlorophenol	120-83-2	0.5	mg/kg	----	----	----	----	<0.5
2.6-Dichlorophenol	87-65-0	0.5	mg/kg	----	----	----	----	<0.5
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	----	----	----	----	<0.5
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	----	----	----	----	<0.5
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	----	----	----	----	<0.5
Pentachlorophenol	87-86-5	2	mg/kg	----	----	----	----	<2
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	----	----	----	----	<0.5
Acenaphthylene	208-96-8	0.5	mg/kg	----	----	----	----	<0.5
Acenaphthene	83-32-9	0.5	mg/kg	----	----	----	----	<0.5
Fluorene	86-73-7	0.5	mg/kg	----	----	----	----	<0.5
Phenanthrene	85-01-8	0.5	mg/kg	----	----	----	----	**0.6**
Anthracene	120-12-7	0.5	mg/kg	----	----	----	----	<0.5
Fluoranthene	206-44-0	0.5	mg/kg	----	----	----	----	**1.5**
Pyrene	129-00-0	0.5	mg/kg	----	----	----	----	**1.4**
Benz(a)anthracene	56-55-3	0.5	mg/kg	----	----	----	----	**0.6**
Chrysene	218-01-9	0.5	mg/kg	----	----	----	----	**0.6**

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S1	S2	S3	S4	S6
			Client sampling date / time	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]
Compound	CAS Number	LOR	Unit	ES1706075-001	ES1706075-002	ES1706075-003	ES1706075-004	ES1706075-005
				Result	Result	Result	Result	Result
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	----	----	----	----	**0.8**
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	----	----	----	----	<0.5
Benzo(a)pyrene	50-32-8	0.5	mg/kg	----	----	----	----	**0.7**
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	----	----	----	----	<0.5
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	----	----	----	----	<0.5
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	----	----	----	----	<0.5
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	----	----	----	----	**6.2**
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	----	----	----	----	**0.8**
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	----	----	----	----	**1.1**
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	----	----	----	----	**1.4**
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	<10	<10	<10	<10
C10 - C14 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
C15 - C28 Fraction	----	100	mg/kg	**130**	<100	<100	<100	<100
C29 - C36 Fraction	----	100	mg/kg	**100**	<100	<100	<100	<100
^ C10 - C36 Fraction (sum)	----	50	mg/kg	**230**	<50	<50	<50	<50
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	<10	<10	<10
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	<10	<10	<10	<10
>C10 - C16 Fraction	----	50	mg/kg	<50	<50	<50	<50	<50
>C16 - C34 Fraction	----	100	mg/kg	**200**	<100	<100	<100	<100
>C34 - C40 Fraction	----	100	mg/kg	<100	<100	<100	<100	<100
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	**200**	<50	<50	<50	<50
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	<50	<50	<50	<50
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
^ Sum of BTEX	----	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Total Xylenes	1330-20-7	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	1	mg/kg	<1	<1	<1	<1	<1

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S1	S2	S3	S4	S6
			Client sampling date / time	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]
Compound	CAS Number	LOR	Unit	ES1706075-001	ES1706075-002	ES1706075-003	ES1706075-004	ES1706075-005
				Result	Result	Result	Result	Result
EP080: BTEXN - Continued								
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	----	----	----	----	102
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	102	95.5	93.0	----	106
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	81.3	93.4	98.6	----	104
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.5	%	----	75.0	----	----	85.2
Toluene-D8	2037-26-5	0.5	%	----	97.8	----	----	109
4-Bromofluorobenzene	460-00-4	0.5	%	----	94.1	----	----	95.5
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	----	----	----	----	85.3
2-Chlorophenol-D4	93951-73-6	0.5	%	----	----	----	----	95.1
2.4.6-Tribromophenol	118-79-6	0.5	%	----	----	----	----	75.8
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	----	----	----	----	105
Anthracene-d10	1719-06-8	0.5	%	----	----	----	----	103
4-Terphenyl-d14	1718-51-0	0.5	%	----	----	----	----	90.5
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	84.8	82.2	89.5	84.6	93.5
Toluene-D8	2037-26-5	0.2	%	84.6	83.8	93.1	85.4	93.6
4-Bromofluorobenzene	460-00-4	0.2	%	79.0	85.2	91.1	82.8	90.8

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S7	S8	S9	S10	S11
			Client sampling date / time	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]
Compound	CAS Number	LOR	Unit	ES1706075-006	ES1706075-007	ES1706075-008	ES1706075-009	ES1706075-010
				Result	Result	Result	Result	Result
EA055: Moisture Content								
Moisture Content (dried @ 103°C)	----	1	%	22.4	20.5	23.4	7.2	3.5
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	----	No	----	No	----
Asbestos Type	1332-21-4	-	--	----	-	----	-	----
Sample weight (dry)	----	0.01	g	----	302	----	224	----
APPROVED IDENTIFIER:	----	-	--	----	S.SPOONER	----	S.SPOONER	----
EA200N: Asbestos Quantification (non-NATA)								
ø Free Fibres	----	5	Fibres	----	No	----	No	----
ø Friable Asbestos	1332-21-4	0.0004	g	----	<0.0004	----	<0.0004	----
ø Friable Asbestos (as Asbestos in Soil)	1332-21-4	0.001	% (w/w)	----	<0.001	----	<0.001	----
ø Asbestos Containing Material	1332-21-4	0.1	g	----	<0.1	----	<0.1	----
ø Asbestos Containing Material (as 15% Asbestos in ACM >7mm)	1332-21-4	0.01	% (w/w)	----	<0.01	----	<0.01	----
ø Weight Used for % Calculation	----	0.0001	kg	----	0.302	----	0.224	----
EG005T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	9	12	6	----	6
Cadmium	7440-43-9	1	mg/kg	3	2	<1	----	2
Chromium	7440-47-3	2	mg/kg	28	24	16	----	44
Copper	7440-50-8	5	mg/kg	<5	257	14	----	25
Lead	7439-92-1	5	mg/kg	24	718	57	----	24
Nickel	7440-02-0	2	mg/kg	<2	11	3	----	31
Zinc	7440-66-6	5	mg/kg	<5	832	48	----	118
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	<0.1	0.8	0.1	----	<0.1
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S7	S8	S9	S10	S11
			Client sampling date / time	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]
Compound	CAS Number	LOR	Unit	ES1706075-006	ES1706075-007	ES1706075-008	ES1706075-009	ES1706075-010
				Result	Result	Result	Result	Result
EP068A: Organochlorine Pesticides (OC) - Continued								
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	**0.08**	<0.05	<0.05	<0.05
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	**0.08**	<0.05	<0.05	<0.05
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Dieldrin	60-57-1	0.05	mg/kg	<0.05	**0.64**	<0.05	<0.05	<0.05
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	**0.64**	<0.05	<0.05	<0.05
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S7	S8	S9	S10	S11
			Client sampling date / time	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]
Compound	CAS Number	LOR	Unit	ES1706075-006	ES1706075-007	ES1706075-008	ES1706075-009	ES1706075-010
				Result	Result	Result	Result	Result
EP068B: Organophosphorus Pesticides (OP) - Continued								
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	----	----	----	<0.5	----
Acenaphthylene	208-96-8	0.5	mg/kg	----	----	----	<0.5	----
Acenaphthene	83-32-9	0.5	mg/kg	----	----	----	<0.5	----
Fluorene	86-73-7	0.5	mg/kg	----	----	----	<0.5	----
Phenanthrene	85-01-8	0.5	mg/kg	----	----	----	<0.5	----
Anthracene	120-12-7	0.5	mg/kg	----	----	----	<0.5	----
Fluoranthene	206-44-0	0.5	mg/kg	----	----	----	<0.5	----
Pyrene	129-00-0	0.5	mg/kg	----	----	----	<0.5	----
Benz(a)anthracene	56-55-3	0.5	mg/kg	----	----	----	<0.5	----
Chrysene	218-01-9	0.5	mg/kg	----	----	----	<0.5	----
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	----	----	----	<0.5	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	----	----	----	<0.5	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg	----	----	----	<0.5	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	----	----	----	<0.5	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	----	----	----	<0.5	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	----	----	----	<0.5	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	----	----	----	<0.5	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	----	----	----	<0.5	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	----	----	----	**0.6**	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	----	----	----	**1.2**	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	----	----	----	<10	----
C10 - C14 Fraction	----	50	mg/kg	----	----	----	<50	----
C15 - C28 Fraction	----	100	mg/kg	----	----	----	<100	----
C29 - C36 Fraction	----	100	mg/kg	----	----	----	<100	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg	----	----	----	<50	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	----	----	----	<10	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	----	----	----	<10	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S7	S8	S9	S10	S11
			Client sampling date / time	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]
Compound	CAS Number	LOR	Unit	ES1706075-006	ES1706075-007	ES1706075-008	ES1706075-009	ES1706075-010
				Result	Result	Result	Result	Result
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions - Continued								
>C10 - C16 Fraction	----	50	mg/kg	----	----	----	<50	----
>C16 - C34 Fraction	----	100	mg/kg	----	----	----	<100	----
>C34 - C40 Fraction	----	100	mg/kg	----	----	----	<100	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	----	----	----	<50	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	----	----	----	<50	----
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	----	----	----	<0.2	----
Toluene	108-88-3	0.5	mg/kg	----	----	----	<0.5	----
Ethylbenzene	100-41-4	0.5	mg/kg	----	----	----	<0.5	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	----	----	----	<0.5	----
ortho-Xylene	95-47-6	0.5	mg/kg	----	----	----	<0.5	----
^ Sum of BTEX	----	0.2	mg/kg	----	----	----	<0.2	----
^ Total Xylenes	1330-20-7	0.5	mg/kg	----	----	----	<0.5	----
Naphthalene	91-20-3	1	mg/kg	----	----	----	<1	----
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	109	95.1	87.9	95.3	66.8
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	96.8	105	76.1	86.5	63.4
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	----	----	----	80.6	----
2-Chlorophenol-D4	93951-73-6	0.5	%	----	----	----	89.1	----
2.4.6-Tribromophenol	118-79-6	0.5	%	----	----	----	68.1	----
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	----	----	----	98.4	----
Anthracene-d10	1719-06-8	0.5	%	----	----	----	94.0	----
4-Terphenyl-d14	1718-51-0	0.5	%	----	----	----	84.6	----
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	----	----	----	91.3	----
Toluene-D8	2037-26-5	0.2	%	----	----	----	91.0	----
4-Bromofluorobenzene	460-00-4	0.2	%	----	----	----	84.3	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S12	S13	TB01	----	----
			Client sampling date / time	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	----	----
Compound	CAS Number	LOR	Unit	ES1706075-011	ES1706075-012	ES1706075-014	--------	--------
				Result	Result	Result	----	----
EA055: Moisture Content								
Moisture Content (dried @ 103°C)	----	1	%	5.2	15.2	1.9	----	----
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Asbestos Detected	1332-21-4	0.1	g/kg	No	----	----	----	----
Asbestos Type	1332-21-4	-	--	-	----	----	----	----
Sample weight (dry)	----	0.01	g	224	----	----	----	----
APPROVED IDENTIFIER:	----	-	--	S.SPOONER	----	----	----	----
EA200N: Asbestos Quantification (non-NATA)								
ø Free Fibres	----	5	Fibres	No	----	----	----	----
ø Friable Asbestos	1332-21-4	0.0004	g	<0.0004	----	----	----	----
ø Friable Asbestos (as Asbestos in Soil)	1332-21-4	0.001	% (w/w)	<0.001	----	----	----	----
ø Asbestos Containing Material	1332-21-4	0.1	g	<0.1	----	----	----	----
ø Asbestos Containing Material (as 15% Asbestos in ACM >7mm)	1332-21-4	0.01	% (w/w)	<0.01	----	----	----	----
ø Weight Used for % Calculation	----	0.0001	kg	0.224	----	----	----	----
EG005T: Total Metals by ICP-AES								
Arsenic	7440-38-2	5	mg/kg	<5	<5	----	----	----
Cadmium	7440-43-9	1	mg/kg	2	<1	----	----	----
Chromium	7440-47-3	2	mg/kg	25	10	----	----	----
Copper	7440-50-8	5	mg/kg	258	5	----	----	----
Lead	7439-92-1	5	mg/kg	83	24	----	----	----
Nickel	7440-02-0	2	mg/kg	30	<2	----	----	----
Zinc	7440-66-6	5	mg/kg	229	33	----	----	----
EG035T: Total Recoverable Mercury by FIMS								
Mercury	7439-97-6	0.1	mg/kg	0.1	<0.1	----	----	----
EP066: Polychlorinated Biphenyls (PCB)								
Total Polychlorinated biphenyls	----	0.1	mg/kg	0.1	----	----	----	----
EP068A: Organochlorine Pesticides (OC)								
alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	----	----	----
Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	----	----	----
beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	----	----	----
gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	----	----	----
delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	----	----	----
Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S12	S13	TB01	----	----
			Client sampling date / time	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	----	----
Compound	CAS Number	LOR	Unit	ES1706075-011	ES1706075-012	ES1706075-014	--------	--------
				Result	Result	Result	----	----
EP068A: Organochlorine Pesticides (OC) - Continued								
Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	----	----	----
Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	----	----	----
^ Total Chlordane (sum)	----	0.05	mg/kg	<0.05	<0.05	----	----	----
trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	----	----	----
alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	----	----	----
cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	----	----	----
Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	----	----	----
4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	----	----	----
Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	----	----	----
beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	----	----	----
^ Endosulfan (sum)	115-29-7	0.05	mg/kg	<0.05	<0.05	----	----	----
4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	----	----	----
Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	----	----	----
Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	----	----	----
4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	----	----	----
Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	----	----	----
Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	----	----	----
^ Sum of Aldrin + Dieldrin	309-00-2/60-57-1	0.05	mg/kg	<0.05	<0.05	----	----	----
^ Sum of DDD + DDE + DDT	72-54-8/72-55-9/50-2	0.05	mg/kg	<0.05	<0.05	----	----	----
EP068B: Organophosphorus Pesticides (OP)								
Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	----	----	----
Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	----	----	----
Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	----	----	----
Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	----	----	----
Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	----	----	----
Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	----	----	----
Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	----	----	----
Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	----	----	----
Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	----	----	----
Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	----	----	----
Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	----	----	----
Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	----	----	----
Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	----	----	----
Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S12	S13	TB01	----	----
			Client sampling date / time	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	----	----
Compound	CAS Number	LOR	Unit	ES1706075-011	ES1706075-012	ES1706075-014	--------	--------
				Result	Result	Result	----	----
EP068B: Organophosphorus Pesticides (OP) - Continued								
Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	----	----	----
Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	----	----	----
Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	----	----	----
Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	----	----	----
Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	----	----	----
EP074A: Monocyclic Aromatic Hydrocarbons								
Benzene	71-43-2	0.2	mg/kg	<0.2	----	----	----	----
Toluene	108-88-3	0.5	mg/kg	<0.5	----	----	----	----
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	----	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	----	----	----	----
Styrene	100-42-5	0.5	mg/kg	<0.5	----	----	----	----
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	----	----	----	----
Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	----	----	----	----
n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	----	----	----	----
1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	----	----	----	----
sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	----	----	----	----
1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	----	----	----	----
tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	----	----	----	----
p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	----	----	----	----
n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	----	----	----	----
EP074B: Oxygenated Compounds								
Vinyl Acetate	108-05-4	5	mg/kg	<5	----	----	----	----
2-Butanone (MEK)	78-93-3	5	mg/kg	<5	----	----	----	----
4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	----	----	----	----
2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	----	----	----	----
EP074C: Sulfonated Compounds								
Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	----	----	----	----
EP074D: Fumigants								
2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	----	----	----	----
1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	----	----	----	----
cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	----	----	----	----
trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	----	----	----	----
1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	----	----	----	----
EP074E: Halogenated Aliphatic Compounds								

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S12	S13	TB01	----	----
			Client sampling date / time	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	----	----
Compound	CAS Number	LOR	Unit	ES1706075-011	ES1706075-012	ES1706075-014	--------	--------
				Result	Result	Result	----	----
EP074E: Halogenated Aliphatic Compounds - Continued								
Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	----	----	----	----
Chloromethane	74-87-3	5	mg/kg	<5	----	----	----	----
Vinyl chloride	75-01-4	5	mg/kg	<5	----	----	----	----
Bromomethane	74-83-9	5	mg/kg	<5	----	----	----	----
Chloroethane	75-00-3	5	mg/kg	<5	----	----	----	----
Trichlorofluoromethane	75-69-4	5	mg/kg	<5	----	----	----	----
1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	----	----	----	----
Iodomethane	74-88-4	0.5	mg/kg	<0.5	----	----	----	----
trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	----	----	----	----
1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	----	----	----	----
cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	----	----	----	----
1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	----	----	----	----
1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	----	----	----	----
Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	----	----	----	----
1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	----	----	----	----
Trichloroethene	79-01-6	0.5	mg/kg	<0.5	----	----	----	----
Dibromomethane	74-95-3	0.5	mg/kg	<0.5	----	----	----	----
1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	----	----	----	----
1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	----	----	----	----
Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	----	----	----	----
1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	----	----	----	----
trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	----	----	----	----
cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	----	----	----	----
1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	----	----	----	----
1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	----	----	----	----
Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	----	----	----	----
1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	----	----	----	----
Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	----	----	----	----
EP074F: Halogenated Aromatic Compounds								
Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	----	----	----	----
Bromobenzene	108-86-1	0.5	mg/kg	<0.5	----	----	----	----
2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	----	----	----	----
4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	----	----	----	----
1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	----	----	----	----
1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	----	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S12	S13	TB01	----	----
			Client sampling date / time	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	----	----
Compound	CAS Number	LOR	Unit	ES1706075-011	ES1706075-012	ES1706075-014	--------	--------
				Result	Result	Result	----	----
EP074F: Halogenated Aromatic Compounds - Continued								
1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	----	----	----	----
1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	----	----	----	----
1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	----	----	----	----
EP074G: Trihalomethanes								
Chloroform	67-66-3	0.5	mg/kg	<0.5	----	----	----	----
Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	----	----	----	----
Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	----	----	----	----
Bromoform	75-25-2	0.5	mg/kg	<0.5	----	----	----	----
EP074H: Naphthalene								
Naphthalene	91-20-3	1	mg/kg	<1	----	----	----	----
EP075(SIM)A: Phenolic Compounds								
Phenol	108-95-2	0.5	mg/kg	<0.5	----	----	----	----
2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	----	----	----	----
2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	----	----	----	----
3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	----	----	----	----
2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	----	----	----	----
2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	----	----	----	----
2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	----	----	----	----
2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	----	----	----	----
4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	----	----	----	----
2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	----	----	----	----
2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	----	----	----	----
Pentachlorophenol	87-86-5	2	mg/kg	<2	----	----	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons								
Naphthalene	91-20-3	0.5	mg/kg	<0.5	----	----	----	----
Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	----	----	----	----
Acenaphthene	83-32-9	0.5	mg/kg	<0.5	----	----	----	----
Fluorene	86-73-7	0.5	mg/kg	<0.5	----	----	----	----
Phenanthrene	85-01-8	0.5	mg/kg	**0.7**	----	----	----	----
Anthracene	120-12-7	0.5	mg/kg	<0.5	----	----	----	----
Fluoranthene	206-44-0	0.5	mg/kg	<0.5	----	----	----	----
Pyrene	129-00-0	0.5	mg/kg	<0.5	----	----	----	----
Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	----	----	----	----
Chrysene	218-01-9	0.5	mg/kg	<0.5	----	----	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S12	S13	TB01	----	----
			Client sampling date / time	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	----	----
Compound	CAS Number	LOR	Unit	ES1706075-011	ES1706075-012	ES1706075-014	--------	--------
				Result	Result	Result	----	----
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons - Continued								
Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	----	----	----	----
Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	----	----	----	----
Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	----	----	----	----
Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	----	----	----	----
Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	----	----	----	----
Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	----	----	----	----
^ Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	**0.7**	----	----	----	----
^ Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	<0.5	----	----	----	----
^ Benzo(a)pyrene TEQ (half LOR)	----	0.5	mg/kg	**0.6**	----	----	----	----
^ Benzo(a)pyrene TEQ (LOR)	----	0.5	mg/kg	**1.2**	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	10	mg/kg	<10	----	<10	----	----
C10 - C14 Fraction	----	50	mg/kg	<50	----	----	----	----
C15 - C28 Fraction	----	100	mg/kg	**110**	----	----	----	----
C29 - C36 Fraction	----	100	mg/kg	<100	----	----	----	----
^ C10 - C36 Fraction (sum)	----	50	mg/kg	**110**	----	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	10	mg/kg	<10	----	<10	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	10	mg/kg	<10	----	<10	----	----
>C10 - C16 Fraction	----	50	mg/kg	<50	----	----	----	----
>C16 - C34 Fraction	----	100	mg/kg	**140**	----	----	----	----
>C34 - C40 Fraction	----	100	mg/kg	<100	----	----	----	----
^ >C10 - C40 Fraction (sum)	----	50	mg/kg	**140**	----	----	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	50	mg/kg	<50	----	----	----	----
EP080: BTEXN								
Benzene	71-43-2	0.2	mg/kg	<0.2	----	<0.2	----	----
Toluene	108-88-3	0.5	mg/kg	<0.5	----	<0.5	----	----
Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	----	<0.5	----	----
meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	----	<0.5	----	----
ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	----	<0.5	----	----
^ Sum of BTEX	----	0.2	mg/kg	<0.2	----	<0.2	----	----
^ Total Xylenes	1330-20-7	0.5	mg/kg	<0.5	----	<0.5	----	----
Naphthalene	91-20-3	1	mg/kg	<1	----	<1	----	----

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S12	S13	TB01	----	----
			Client sampling date / time	[10-Mar-2017]	[10-Mar-2017]	[10-Mar-2017]	----	----
Compound	CAS Number	LOR	Unit	ES1706075-011	ES1706075-012	ES1706075-014	--------	--------
				Result	Result	Result	----	----
EP080: BTEXN - Continued								
EP066S: PCB Surrogate								
Decachlorobiphenyl	2051-24-3	0.1	%	105	----	----	----	----
EP068S: Organochlorine Pesticide Surrogate								
Dibromo-DDE	21655-73-2	0.05	%	114	102	----	----	----
EP068T: Organophosphorus Pesticide Surrogate								
DEF	78-48-8	0.05	%	88.6	85.6	----	----	----
EP074S: VOC Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.5	%	87.2	----	----	----	----
Toluene-D8	2037-26-5	0.5	%	115	----	----	----	----
4-Bromofluorobenzene	460-00-4	0.5	%	99.5	----	----	----	----
EP075(SIM)S: Phenolic Compound Surrogates								
Phenol-d6	13127-88-3	0.5	%	82.2	----	----	----	----
2-Chlorophenol-D4	93951-73-6	0.5	%	91.3	----	----	----	----
2.4.6-Tribromophenol	118-79-6	0.5	%	72.2	----	----	----	----
EP075(SIM)T: PAH Surrogates								
2-Fluorobiphenyl	321-60-8	0.5	%	101	----	----	----	----
Anthracene-d10	1719-06-8	0.5	%	96.3	----	----	----	----
4-Terphenyl-d14	1718-51-0	0.5	%	86.1	----	----	----	----
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	0.2	%	95.6	----	86.6	----	----
Toluene-D8	2037-26-5	0.2	%	98.8	----	86.6	----	----
4-Bromofluorobenzene	460-00-4	0.2	%	92.2	----	82.4	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Client sample ID	RB01	----	----	----	----
			Client sampling date / time	[10-Mar-2017]	----	----	----	----
Compound	CAS Number	LOR	Unit	ES1706075-013	--------	--------	--------	--------
				Result	----	----	----	----
EG020F: Dissolved Metals by ICP-MS								
Arsenic	7440-38-2	0.001	mg/L	<0.001	----	----	----	----
Cadmium	7440-43-9	0.0001	mg/L	<0.0001	----	----	----	----
Chromium	7440-47-3	0.001	mg/L	<0.001	----	----	----	----
Copper	7440-50-8	0.001	mg/L	<0.001	----	----	----	----
Nickel	7440-02-0	0.001	mg/L	<0.001	----	----	----	----
Lead	7439-92-1	0.001	mg/L	<0.001	----	----	----	----
Zinc	7440-66-6	0.005	mg/L	<0.005	----	----	----	----
EG035F: Dissolved Mercury by FIMS								
Mercury	7439-97-6	0.0001	mg/L	<0.0001	----	----	----	----
EP080/071: Total Petroleum Hydrocarbons								
C6 - C9 Fraction	----	20	µg/L	<20	----	----	----	----
C10 - C14 Fraction	----	50	µg/L	<50	----	----	----	----
C15 - C28 Fraction	----	100	µg/L	<100	----	----	----	----
C29 - C36 Fraction	----	50	µg/L	<50	----	----	----	----
^ C10 - C36 Fraction (sum)	----	50	µg/L	<50	----	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions								
C6 - C10 Fraction	C6_C10	20	µg/L	<20	----	----	----	----
^ C6 - C10 Fraction minus BTEX (F1)	C6_C10-BTEX	20	µg/L	<20	----	----	----	----
>C10 - C16 Fraction	----	100	µg/L	<100	----	----	----	----
>C16 - C34 Fraction	----	100	µg/L	<100	----	----	----	----
>C34 - C40 Fraction	----	100	µg/L	<100	----	----	----	----
^ >C10 - C40 Fraction (sum)	----	100	µg/L	<100	----	----	----	----
^ >C10 - C16 Fraction minus Naphthalene (F2)	----	100	µg/L	<100	----	----	----	----
EP080: BTEXN								
Benzene	71-43-2	1	µg/L	<1	----	----	----	----
Toluene	108-88-3	2	µg/L	<2	----	----	----	----
Ethylbenzene	100-41-4	2	µg/L	<2	----	----	----	----
meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	----	----	----	----
ortho-Xylene	95-47-6	2	µg/L	<2	----	----	----	----
^ Total Xylenes	1330-20-7	2	µg/L	<2	----	----	----	----
^ Sum of BTEX	----	1	µg/L	<1	----	----	----	----
Naphthalene	91-20-3	5	µg/L	<5	----	----	----	----

Analytical Results

Sub-Matrix: **WATER** (Matrix: **WATER**)			Client sample ID	**RB01**	----	----	----	----
			Client sampling date / time	[10-Mar-2017]	----	----	----	----
Compound	*CAS Number*	*LOR*	*Unit*	**ES1706075-013**	--------	--------	--------	--------
				Result	----	----	----	----
EP080S: TPH(V)/BTEX Surrogates								
1.2-Dichloroethane-D4	17060-07-0	2	%	**116**	----	----	----	----
Toluene-D8	2037-26-5	2	%	**112**	----	----	----	----
4-Bromofluorobenzene	460-00-4	2	%	**111**	----	----	----	----

Analytical Results

Descriptive Results

Sub-Matrix: **SOIL**

Method: Compound	*Client sample ID - Client sampling date / time*	*Analytical Results*
EA200: AS 4964 - 2004 Identification of Asbestos in Soils		
EA200: Description	S1 - [10-Mar-2017]	Mid brown clay soil.
EA200: Description	S2 - [10-Mar-2017]	Mid brown clay soil.
EA200: Description	S3 - [10-Mar-2017]	Mid brown clay soil.
EA200: Description	S8 - [10-Mar-2017]	Mid brown clay soil.
EA200: Description	S10 - [10-Mar-2017]	Dark grey sandy soil.
EA200: Description	S12 - [10-Mar-2017]	Dark grey sandy soil.

Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP066S: PCB Surrogate			
Decachlorobiphenyl	2051-24-3	39	149
EP068S: Organochlorine Pesticide Surrogate			
Dibromo-DDE	21655-73-2	49	147
EP068T: Organophosphorus Pesticide Surrogate			
DEF	78-48-8	35	143
EP074S: VOC Surrogates			
1.2-Dichloroethane-D4	17060-07-0	64	130
Toluene-D8	2037-26-5	66	136
4-Bromofluorobenzene	460-00-4	60	122
EP075(SIM)S: Phenolic Compound Surrogates			
Phenol-d6	13127-88-3	63	123
2-Chlorophenol-D4	93951-73-6	66	122
2.4.6-Tribromophenol	118-79-6	40	138
EP075(SIM)T: PAH Surrogates			
2-Fluorobiphenyl	321-60-8	70	122
Anthracene-d10	1719-06-8	66	128
4-Terphenyl-d14	1718-51-0	65	129
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	73	133
Toluene-D8	2037-26-5	74	132
4-Bromofluorobenzene	460-00-4	72	130

Sub-Matrix: WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP080S: TPH(V)/BTEX Surrogates			
1.2-Dichloroethane-D4	17060-07-0	71	137
Toluene-D8	2037-26-5	79	131
4-Bromofluorobenzene	460-00-4	70	128

ALS Environmental

QUALITY CONTROL REPORT

Work Order	: **ES1706075**	Page	: 1 of 22
Amendment	: **1**		
Client	: **SMEC TESTING SERVICES PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR EDWIN TRUJILLO	Contact	: Customer Services ES
Address	: P O BOX 6989 WETHERILL PARK NSW, AUSTRALIA 2164	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: ----	Telephone	: +61-2-8784 8555
Project	: 21192/7558C	Date Samples Received	: 14-Mar-2017
Order number	: E-2017-132	Date Analysis Commenced	: 16-Mar-2017
C-O-C number	: ----	Issue Date	: 10-May-2017
Sampler	: ----		
Site	: ----		
Quote number	: SYBQ/234/16		
No. of samples received	: 14		
No. of samples analysed	: 14		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Celine Conceicao	Senior Spectroscopist	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Inorganics, Smithfield, NSW
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Sanjeshni Jyoti	Senior Chemist Volatiles	Sydney Organics, Smithfield, NSW
Shaun Spooner	Asbestos Identifier	Newcastle - Asbestos, Mayfield West, NSW
Wisam Marassa	Inorganics Coordinator	Sydney Inorganics, Smithfield, NSW

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Client sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Recovery Limits (%)*
EA055: Moisture Content (QC Lot: 794882)									
ES1705737-022	Anonymous	EA055-103: Moisture Content (dried @ 103°C)	----	1	%	18.2	18.0	1.18	0% - 50%
ES1706058-001	Anonymous	EA055-103: Moisture Content (dried @ 103°C)	----	1	%	8.6	8.4	2.66	No Limit
EA055: Moisture Content (QC Lot: 794883)									
ES1706075-008	S9	EA055-103: Moisture Content (dried @ 103°C)	----	1	%	23.4	25.1	6.98	0% - 20%
EG005T: Total Metals by ICP-AES (QC Lot: 796803)									
ES1706075-006	S7	EG005T: Cadmium	7440-43-9	1	mg/kg	3	2	49.8	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	28	22	21.7	0% - 50%
		EG005T: Nickel	7440-02-0	2	mg/kg	<2	<2	0.00	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	9	7	31.2	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	<5	<5	0.00	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	24	29	17.2	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	<5	12	84.8	No Limit
ES1706086-001	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.00	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	4	13	97.5	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	4	8	64.4	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.00	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	9	11	20.4	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	14	14	0.00	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	30	30	0.00	No Limit
EG005T: Total Metals by ICP-AES (QC Lot: 876176)									
EM1705493-001	Anonymous	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.00	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	6	9	45.3	No Limit
		EG005T: Nickel	7440-02-0	2	mg/kg	3	4	32.6	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	<5	<5	0.00	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EG005T: Total Metals by ICP-AES (QC Lot: 876176) - continued									
EM1705493-001	Anonymous	EG005T: Copper	7440-50-8	5	mg/kg	<5	<5	0.00	No Limit
		EG005T: Lead	7439-92-1	5	mg/kg	5	6	0.00	No Limit
		EG005T: Zinc	7440-66-6	5	mg/kg	14	18	28.5	No Limit
ES1706075-003	S3	EG005T: Cadmium	7440-43-9	1	mg/kg	<1	<1	0.00	No Limit
		EG005T: Chromium	7440-47-3	2	mg/kg	25	19	30.0	0% - 50%
		EG005T: Nickel	7440-02-0	2	mg/kg	8	6	32.4	No Limit
		EG005T: Arsenic	7440-38-2	5	mg/kg	12	10	14.3	No Limit
		EG005T: Copper	7440-50-8	5	mg/kg	47	68	37.6	0% - 50%
		EG005T: Lead	7439-92-1	5	mg/kg	407	371	9.34	0% - 20%
		EG005T: Zinc	7440-66-6	5	mg/kg	735	607	19.1	0% - 20%
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 796804)									
ES1706075-006	S7	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.00	No Limit
ES1706086-001	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.00	No Limit
EG035T: Total Recoverable Mercury by FIMS (QC Lot: 876175)									
EM1705493-001	Anonymous	EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	<0.1	0.00	No Limit
ES1706075-003	S3	EG035T: Mercury	7439-97-6	0.1	mg/kg	0.7	0.6	22.8	No Limit
EP066: Polychlorinated Biphenyls (PCB) (QC Lot: 793423)									
ES1706075-005	S6	EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	<0.1	0.00	No Limit
EP068A: Organochlorine Pesticides (OC) (QC Lot: 793420)									
ES1706086-001	Anonymous	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.00	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP068A: Organochlorine Pesticides (OC) (QC Lot: 793420) - continued									
ES1706086-001	Anonymous	EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
ES1706075-005	S6	EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
		EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 793420)									
ES1706086-001	Anonymous	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.00	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP068B: Organophosphorus Pesticides (OP) (QC Lot: 793420) - continued									
ES1706086-001	Anonymous	EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
ES1706075-005	S6	EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	<0.05	0.00	No Limit
		EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
		EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
		EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 796793)									
ES1706208-001	Anonymous	EP074: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
		EP074: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
ES1706075-002	S2	EP074: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
		EP074: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP074A: Monocyclic Aromatic Hydrocarbons (QC Lot: 796793) - continued									
ES1706075-002	S2	EP074: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Styrene	100-42-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
EP074B: Oxygenated Compounds (QC Lot: 796793)									
ES1706208-001	Anonymous	EP074: Vinyl Acetate	108-05-4	5	mg/kg	<5	<5	0.00	No Limit
		EP074: 2-Butanone (MEK)	78-93-3	5	mg/kg	<5	<5	0.00	No Limit
		EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	<5	0.00	No Limit
		EP074: 2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	<5	0.00	No Limit
ES1706075-002	S2	EP074: Vinyl Acetate	108-05-4	5	mg/kg	<5	<5	0.00	No Limit
		EP074: 2-Butanone (MEK)	78-93-3	5	mg/kg	<5	<5	0.00	No Limit
		EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	<5	0.00	No Limit
		EP074: 2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	<5	0.00	No Limit
EP074C: Sulfonated Compounds (QC Lot: 796793)									
ES1706208-001	Anonymous	EP074: Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
ES1706075-002	S2	EP074: Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
EP074D: Fumigants (QC Lot: 796793)									
ES1706208-001	Anonymous	EP074: 2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
ES1706075-002	S2	EP074: 2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
EP074E: Halogenated Aliphatic Compounds (QC Lot: 796793)									
ES1706208-001	Anonymous	EP074: 1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Iodomethane	74-88-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP074E: Halogenated Aliphatic Compounds (QC Lot: 796793) - continued									
ES1706208-001	Anonymous	EP074: 1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Trichloroethene	79-01-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Dibromomethane	74-95-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	<5	0.00	No Limit
		EP074: Chloromethane	74-87-3	5	mg/kg	<5	<5	0.00	No Limit
		EP074: Vinyl chloride	75-01-4	5	mg/kg	<5	<5	0.00	No Limit
		EP074: Bromomethane	74-83-9	5	mg/kg	<5	<5	0.00	No Limit
		EP074: Chloroethane	75-00-3	5	mg/kg	<5	<5	0.00	No Limit
		EP074: Trichlorofluoromethane	75-69-4	5	mg/kg	<5	<5	0.00	No Limit
ES1706075-002	S2	EP074: 1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Iodomethane	74-88-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Trichloroethene	79-01-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Dibromomethane	74-95-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP074E: Halogenated Aliphatic Compounds (QC Lot: 796793) - continued									
ES1706075-002	S2	EP074: trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	<5	0.00	No Limit
		EP074: Chloromethane	74-87-3	5	mg/kg	<5	<5	0.00	No Limit
		EP074: Vinyl chloride	75-01-4	5	mg/kg	<5	<5	0.00	No Limit
		EP074: Bromomethane	74-83-9	5	mg/kg	<5	<5	0.00	No Limit
		EP074: Chloroethane	75-00-3	5	mg/kg	<5	<5	0.00	No Limit
		EP074: Trichlorofluoromethane	75-69-4	5	mg/kg	<5	<5	0.00	No Limit
EP074F: Halogenated Aromatic Compounds (QC Lot: 796793)									
ES1706208-001	Anonymous	EP074: Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Bromobenzene	108-86-1	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
ES1706075-002	S2	EP074: Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Bromobenzene	108-86-1	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: 1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
EP074G: Trihalomethanes (QC Lot: 796793)									
ES1706208-001	Anonymous	EP074: Chloroform	67-66-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Bromoform	75-25-2	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
ES1706075-002	S2	EP074: Chloroform	67-66-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP074: Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	<0.5	0.00	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP074G: Trihalomethanes (QC Lot: 796793) - continued									
ES1706075-002	S2	EP074: Bromoform	75-25-2	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
EP074H: Naphthalene (QC Lot: 796793)									
ES1706208-001	Anonymous	EP074: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.00	No Limit
ES1706075-002	S2	EP074: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.00	No Limit
EP075(SIM)A: Phenolic Compounds (QC Lot: 793422)									
ES1706075-005	S6	EP075(SIM): Phenol	108-95-2	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	<1	0.00	No Limit
		EP075(SIM): Pentachlorophenol	87-86-5	2	mg/kg	<2	<2	0.00	No Limit
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QC Lot: 793422)									
ES1706075-005	S6	EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	0.6	0.6	0.00	No Limit
		EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	1.5	1.5	0.00	No Limit
		EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	1.4	1.5	0.00	No Limit
		EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	0.6	0.7	0.00	No Limit
		EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	0.6	0.7	0.00	No Limit
		EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	0.8	0.9	0.00	No Limit
		EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	0.7	0.7	0.00	No Limit
		EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP075(SIM): Sum of polycyclic aromatic hydrocarbons	----	0.5	mg/kg	6.2	6.6	6.25	0% - 50%
		EP075(SIM): Benzo(a)pyrene TEQ (zero)	----	0.5	mg/kg	0.8	0.9	0.00	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 793421)									
ES1706075-005	S6	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 793421) - continued									
ES1706075-005	S6	EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.00	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 796792)									
ES1706208-001	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.00	No Limit
ES1706075-002	S2	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.00	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 876078)									
ES1710935-006	Anonymous	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.00	No Limit
ES1710954-004	Anonymous	EP071: C15 - C28 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit
		EP071: C29 - C36 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit
		EP071: C10 - C14 Fraction	----	50	mg/kg	<50	<50	0.00	No Limit
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 876272)									
ES1710935-006	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.00	No Limit
ES1710954-004	Anonymous	EP080: C6 - C9 Fraction	----	10	mg/kg	<10	<10	0.00	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 793421)									
ES1706075-005	S6	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.00	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 796792)									
ES1706208-001	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.00	No Limit
ES1706075-002	S2	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.00	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 876078)									
ES1710935-006	Anonymous	EP071: >C16 - C34 Fraction	----	100	mg/kg	130	150	15.6	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.00	No Limit
ES1710954-004	Anonymous	EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit
		EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	<100	0.00	No Limit
		EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	<50	0.00	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 876272)									
ES1710935-006	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.00	No Limit
ES1710954-004	Anonymous	EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	<10	0.00	No Limit
EP080: BTEXN (QC Lot: 796792)									
ES1706208-001	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit

Sub-Matrix: **SOIL**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EP080: BTEXN (QC Lot: 796792) - continued									
ES1706208-001	Anonymous	EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.00	No Limit
ES1706075-002	S2	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.00	No Limit
EP080: BTEXN (QC Lot: 876272)									
ES1710935-006	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.00	No Limit
ES1710954-004	Anonymous	EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	<0.2	0.00	No Limit
		EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	<0.5	0.00	No Limit
		EP080: Naphthalene	91-20-3	1	mg/kg	<1	<1	0.00	No Limit

Sub-Matrix: **WATER**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)
EG020F: Dissolved Metals by ICP-MS (QC Lot: 800522)									
ES1706537-001	Anonymous	EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.00	No Limit
		EG020A-F: Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	0.00	No Limit
		EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.00	No Limit
		EG020A-F: Copper	7440-50-8	0.001	mg/L	<0.001	<0.001	0.00	No Limit
		EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.00	No Limit
		EG020A-F: Nickel	7440-02-0	0.001	mg/L	<0.001	<0.001	0.00	No Limit
		EG020A-F: Zinc	7440-66-6	0.005	mg/L	<0.005	<0.005	0.00	No Limit
ES1706537-011	Anonymous	EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	<0.0001	0.00	No Limit
		EG020A-F: Arsenic	7440-38-2	0.001	mg/L	<0.001	<0.001	0.00	No Limit
		EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	<0.001	0.00	No Limit
		EG020A-F: Copper	7440-50-8	0.001	mg/L	0.001	0.001	0.00	No Limit
		EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	<0.001	0.00	No Limit
		EG020A-F: Nickel	7440-02-0	0.001	mg/L	0.002	0.002	0.00	No Limit
		EG020A-F: Zinc	7440-66-6	0.005	mg/L	0.007	0.007	0.00	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Client sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Recovery Limits (%)*
EP080/071: Total Petroleum Hydrocarbons (QC Lot: 794598)									
ES1706118-003	Anonymous	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.00	No Limit
ES1706118-004	Anonymous	EP080: C6 - C9 Fraction	----	20	µg/L	<20	<20	0.00	No Limit
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QC Lot: 794598)									
ES1706118-003	Anonymous	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.00	No Limit
ES1706118-004	Anonymous	EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	<20	0.00	No Limit
EP080: BTEXN (QC Lot: 794598)									
ES1706118-003	Anonymous	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.00	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.00	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.00	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.00	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.00	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.00	No Limit
ES1706118-004	Anonymous	EP080: Benzene	71-43-2	1	µg/L	<1	<1	0.00	No Limit
		EP080: Toluene	108-88-3	2	µg/L	<2	<2	0.00	No Limit
		EP080: Ethylbenzene	100-41-4	2	µg/L	<2	<2	0.00	No Limit
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	<2	0.00	No Limit
		EP080: ortho-Xylene	95-47-6	2	µg/L	<2	<2	0.00	No Limit
		EP080: Naphthalene	91-20-3	5	µg/L	<5	<5	0.00	No Limit

Method Blank (MB) and Laboratory Control Spike (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Spike (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **SOIL**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Recovery Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EG005T: Total Metals by ICP-AES (QCLot: 796803)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	21.7 mg/kg	102	86	126
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	4.64 mg/kg	102	83	113
EG005T: Chromium	7440-47-3	2	mg/kg	<2	43.9 mg/kg	85.8	76	128
EG005T: Copper	7440-50-8	5	mg/kg	<5	32 mg/kg	97.2	86	120
EG005T: Lead	7439-92-1	5	mg/kg	<5	40 mg/kg	98.7	80	114
EG005T: Nickel	7440-02-0	2	mg/kg	<2	55 mg/kg	98.3	87	123
EG005T: Zinc	7440-66-6	5	mg/kg	<5	60.8 mg/kg	101	80	122
EG005T: Total Metals by ICP-AES (QCLot: 876176)								
EG005T: Arsenic	7440-38-2	5	mg/kg	<5	21.7 mg/kg	90.8	86	126
EG005T: Cadmium	7440-43-9	1	mg/kg	<1	4.64 mg/kg	89.8	83	113
EG005T: Chromium	7440-47-3	2	mg/kg	<2	43.9 mg/kg	87.1	76	128
EG005T: Copper	7440-50-8	5	mg/kg	<5	32 mg/kg	102	86	120
EG005T: Lead	7439-92-1	5	mg/kg	<5	40 mg/kg	89.8	80	114
EG005T: Nickel	7440-02-0	2	mg/kg	<2	55 mg/kg	90.9	87	123
EG005T: Zinc	7440-66-6	5	mg/kg	<5	60.8 mg/kg	93.7	80	122
EG035T: Total Recoverable Mercury by FIMS (QCLot: 796804)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	2.57 mg/kg	75.5	70	105
EG035T: Total Recoverable Mercury by FIMS (QCLot: 876175)								
EG035T: Mercury	7439-97-6	0.1	mg/kg	<0.1	2.57 mg/kg	97.4	70	105
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 793423)								
EP066: Total Polychlorinated biphenyls	----	0.1	mg/kg	<0.1	1 mg/kg	102	62	126
EP068A: Organochlorine Pesticides (OC) (QCLot: 793420)								
EP068: alpha-BHC	319-84-6	0.05	mg/kg	<0.05	0.5 mg/kg	89.2	69	113
EP068: Hexachlorobenzene (HCB)	118-74-1	0.05	mg/kg	<0.05	0.5 mg/kg	84.2	65	117
EP068: beta-BHC	319-85-7	0.05	mg/kg	<0.05	0.5 mg/kg	82.3	67	119
EP068: gamma-BHC	58-89-9	0.05	mg/kg	<0.05	0.5 mg/kg	91.0	68	116
EP068: delta-BHC	319-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	81.6	65	117
EP068: Heptachlor	76-44-8	0.05	mg/kg	<0.05	0.5 mg/kg	88.8	67	115
EP068: Aldrin	309-00-2	0.05	mg/kg	<0.05	0.5 mg/kg	88.8	69	115
EP068: Heptachlor epoxide	1024-57-3	0.05	mg/kg	<0.05	0.5 mg/kg	93.0	62	118
EP068: trans-Chlordane	5103-74-2	0.05	mg/kg	<0.05	0.5 mg/kg	93.9	63	117
EP068: alpha-Endosulfan	959-98-8	0.05	mg/kg	<0.05	0.5 mg/kg	95.6	66	116
EP068: cis-Chlordane	5103-71-9	0.05	mg/kg	<0.05	0.5 mg/kg	95.2	64	116
EP068: Dieldrin	60-57-1	0.05	mg/kg	<0.05	0.5 mg/kg	97.2	66	116

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Recovery Limits (%)	
				Result	Concentration	LCS	Low	High
EP068A: Organochlorine Pesticides (OC) (QCLot: 793420) - continued								
EP068: 4.4`-DDE	72-55-9	0.05	mg/kg	<0.05	0.5 mg/kg	96.1	67	115
EP068: Endrin	72-20-8	0.05	mg/kg	<0.05	0.5 mg/kg	98.6	67	123
EP068: beta-Endosulfan	33213-65-9	0.05	mg/kg	<0.05	0.5 mg/kg	101	69	115
EP068: 4.4`-DDD	72-54-8	0.05	mg/kg	<0.05	0.5 mg/kg	96.2	69	121
EP068: Endrin aldehyde	7421-93-4	0.05	mg/kg	<0.05	0.5 mg/kg	98.4	56	120
EP068: Endosulfan sulfate	1031-07-8	0.05	mg/kg	<0.05	0.5 mg/kg	94.5	62	124
EP068: 4.4`-DDT	50-29-3	0.2	mg/kg	<0.2	0.5 mg/kg	102	66	120
EP068: Endrin ketone	53494-70-5	0.05	mg/kg	<0.05	0.5 mg/kg	96.9	64	122
EP068: Methoxychlor	72-43-5	0.2	mg/kg	<0.2	0.5 mg/kg	103	54	130
EP068B: Organophosphorus Pesticides (OP) (QCLot: 793420)								
EP068: Dichlorvos	62-73-7	0.05	mg/kg	<0.05	0.5 mg/kg	79.1	59	119
EP068: Demeton-S-methyl	919-86-8	0.05	mg/kg	<0.05	0.5 mg/kg	87.1	62	128
EP068: Monocrotophos	6923-22-4	0.2	mg/kg	<0.2	0.5 mg/kg	102	54	126
EP068: Dimethoate	60-51-5	0.05	mg/kg	<0.05	0.5 mg/kg	97.8	67	119
EP068: Diazinon	333-41-5	0.05	mg/kg	<0.05	0.5 mg/kg	89.8	70	120
EP068: Chlorpyrifos-methyl	5598-13-0	0.05	mg/kg	<0.05	0.5 mg/kg	89.8	72	120
EP068: Parathion-methyl	298-00-0	0.2	mg/kg	<0.2	0.5 mg/kg	96.2	68	120
EP068: Malathion	121-75-5	0.05	mg/kg	<0.05	0.5 mg/kg	96.2	68	122
EP068: Fenthion	55-38-9	0.05	mg/kg	<0.05	0.5 mg/kg	99.4	69	117
EP068: Chlorpyrifos	2921-88-2	0.05	mg/kg	<0.05	0.5 mg/kg	96.8	76	118
EP068: Parathion	56-38-2	0.2	mg/kg	<0.2	0.5 mg/kg	104	64	122
EP068: Pirimphos-ethyl	23505-41-1	0.05	mg/kg	<0.05	0.5 mg/kg	101	70	116
EP068: Chlorfenvinphos	470-90-6	0.05	mg/kg	<0.05	0.5 mg/kg	103	69	121
EP068: Bromophos-ethyl	4824-78-6	0.05	mg/kg	<0.05	0.5 mg/kg	102	66	118
EP068: Fenamiphos	22224-92-6	0.05	mg/kg	<0.05	0.5 mg/kg	103	68	124
EP068: Prothiofos	34643-46-4	0.05	mg/kg	<0.05	0.5 mg/kg	104	62	112
EP068: Ethion	563-12-2	0.05	mg/kg	<0.05	0.5 mg/kg	105	68	120
EP068: Carbophenothion	786-19-6	0.05	mg/kg	<0.05	0.5 mg/kg	96.5	65	127
EP068: Azinphos Methyl	86-50-0	0.05	mg/kg	<0.05	0.5 mg/kg	98.0	41	123
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 796793)								
EP074: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	88.4	71	121
EP074: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	87.6	65	131
EP074: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	81.7	72	114
EP074: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	78.5	70	116
EP074: Styrene	100-42-5	0.5	mg/kg	<0.5	1 mg/kg	79.2	67	113
EP074: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	79.9	75	115
EP074: Isopropylbenzene	98-82-8	0.5	mg/kg	<0.5	1 mg/kg	83.4	65	117
EP074: n-Propylbenzene	103-65-1	0.5	mg/kg	<0.5	1 mg/kg	85.6	66	122

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Recovery Limits (%)	
				Result	Concentration	LCS	Low	High
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 796793) - continued								
EP074: 1.3.5-Trimethylbenzene	108-67-8	0.5	mg/kg	<0.5	1 mg/kg	81.8	68	118
EP074: sec-Butylbenzene	135-98-8	0.5	mg/kg	<0.5	1 mg/kg	81.1	69	119
EP074: 1.2.4-Trimethylbenzene	95-63-6	0.5	mg/kg	<0.5	1 mg/kg	79.6	69	117
EP074: tert-Butylbenzene	98-06-6	0.5	mg/kg	<0.5	1 mg/kg	83.6	69	115
EP074: p-Isopropyltoluene	99-87-6	0.5	mg/kg	<0.5	1 mg/kg	80.0	66	118
EP074: n-Butylbenzene	104-51-8	0.5	mg/kg	<0.5	1 mg/kg	84.9	59	125
EP074B: Oxygenated Compounds (QCLot: 796793)								
EP074: Vinyl Acetate	108-05-4	5	mg/kg	<5	10 mg/kg	35.7	30	156
EP074: 2-Butanone (MEK)	78-93-3	5	mg/kg	<5	10 mg/kg	91.5	58	136
EP074: 4-Methyl-2-pentanone (MIBK)	108-10-1	5	mg/kg	<5	10 mg/kg	90.8	62	132
EP074: 2-Hexanone (MBK)	591-78-6	5	mg/kg	<5	10 mg/kg	101	54	136
EP074C: Sulfonated Compounds (QCLot: 796793)								
EP074: Carbon disulfide	75-15-0	0.5	mg/kg	<0.5	1 mg/kg	63.6	54	126
EP074D: Fumigants (QCLot: 796793)								
EP074: 2.2-Dichloropropane	594-20-7	0.5	mg/kg	<0.5	1 mg/kg	79.4	60	126
EP074: 1.2-Dichloropropane	78-87-5	0.5	mg/kg	<0.5	1 mg/kg	89.0	68	124
EP074: cis-1.3-Dichloropropylene	10061-01-5	0.5	mg/kg	<0.5	1 mg/kg	92.0	51	119
EP074: trans-1.3-Dichloropropylene	10061-02-6	0.5	mg/kg	<0.5	1 mg/kg	88.3	52	114
EP074: 1.2-Dibromoethane (EDB)	106-93-4	0.5	mg/kg	<0.5	1 mg/kg	97.1	63	115
EP074E: Halogenated Aliphatic Compounds (QCLot: 796793)								
EP074: Dichlorodifluoromethane	75-71-8	5	mg/kg	<5	10 mg/kg	86.4	30	148
EP074: Chloromethane	74-87-3	5	mg/kg	<5	10 mg/kg	73.4	41	141
EP074: Vinyl chloride	75-01-4	5	mg/kg	<5	10 mg/kg	100	43	147
EP074: Bromomethane	74-83-9	5	mg/kg	<5	10 mg/kg	92.9	47	141
EP074: Chloroethane	75-00-3	5	mg/kg	<5	10 mg/kg	114	49	143
EP074: Trichlorofluoromethane	75-69-4	5	mg/kg	<5	10 mg/kg	102	49	135
EP074: 1.1-Dichloroethene	75-35-4	0.5	mg/kg	<0.5	1 mg/kg	81.8	54	126
EP074: Iodomethane	74-88-4	0.5	mg/kg	<0.5	1 mg/kg	104	43	129
EP074: trans-1.2-Dichloroethene	156-60-5	0.5	mg/kg	<0.5	1 mg/kg	82.0	64	120
EP074: 1.1-Dichloroethane	75-34-3	0.5	mg/kg	<0.5	1 mg/kg	85.1	67	125
EP074: cis-1.2-Dichloroethene	156-59-2	0.5	mg/kg	<0.5	1 mg/kg	82.3	69	121
EP074: 1.1.1-Trichloroethane	71-55-6	0.5	mg/kg	<0.5	1 mg/kg	77.3	65	117
EP074: 1.1-Dichloropropylene	563-58-6	0.5	mg/kg	<0.5	1 mg/kg	84.4	65	123
EP074: Carbon Tetrachloride	56-23-5	0.5	mg/kg	<0.5	1 mg/kg	83.0	59	125
EP074: 1.2-Dichloroethane	107-06-2	0.5	mg/kg	<0.5	1 mg/kg	82.5	65	125
EP074: Trichloroethene	79-01-6	0.5	mg/kg	<0.5	1 mg/kg	83.8	70	118
EP074: Dibromomethane	74-95-3	0.5	mg/kg	<0.5	1 mg/kg	94.6	68	118
EP074: 1.1.2-Trichloroethane	79-00-5	0.5	mg/kg	<0.5	1 mg/kg	93.8	64	126

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High
EP074E: Halogenated Aliphatic Compounds (QCLot: 796793) - continued								
EP074: 1.3-Dichloropropane	142-28-9	0.5	mg/kg	<0.5	1 mg/kg	97.4	68	122
EP074: Tetrachloroethene	127-18-4	0.5	mg/kg	<0.5	1 mg/kg	118	67	143
EP074: 1.1.1.2-Tetrachloroethane	630-20-6	0.5	mg/kg	<0.5	1 mg/kg	88.4	62	122
EP074: trans-1.4-Dichloro-2-butene	110-57-6	0.5	mg/kg	<0.5	1 mg/kg	104	54	128
EP074: cis-1.4-Dichloro-2-butene	1476-11-5	0.5	mg/kg	<0.5	1 mg/kg	108	55	129
EP074: 1.1.2.2-Tetrachloroethane	79-34-5	0.5	mg/kg	<0.5	1 mg/kg	79.3	65	121
EP074: 1.2.3-Trichloropropane	96-18-4	0.5	mg/kg	<0.5	1 mg/kg	95.8	61	125
EP074: Pentachloroethane	76-01-7	0.5	mg/kg	<0.5	1 mg/kg	40.4	20	134
EP074: 1.2-Dibromo-3-chloropropane	96-12-8	0.5	mg/kg	<0.5	1 mg/kg	55.1	53	129
EP074: Hexachlorobutadiene	87-68-3	0.5	mg/kg	<0.5	1 mg/kg	82.7	50	128
EP074F: Halogenated Aromatic Compounds (QCLot: 796793)								
EP074: Chlorobenzene	108-90-7	0.5	mg/kg	<0.5	1 mg/kg	87.3	68	116
EP074: Bromobenzene	108-86-1	0.5	mg/kg	<0.5	1 mg/kg	83.6	70	1147
EP074: 2-Chlorotoluene	95-49-8	0.5	mg/kg	<0.5	1 mg/kg	83.1	68	122
EP074: 4-Chlorotoluene	106-43-4	0.5	mg/kg	<0.5	1 mg/kg	86.4	67	123
EP074: 1.3-Dichlorobenzene	541-73-1	0.5	mg/kg	<0.5	1 mg/kg	82.0	70	116
EP074: 1.4-Dichlorobenzene	106-46-7	0.5	mg/kg	<0.5	1 mg/kg	80.0	67	117
EP074: 1.2-Dichlorobenzene	95-50-1	0.5	mg/kg	<0.5	1 mg/kg	92.1	70	114
EP074: 1.2.4-Trichlorobenzene	120-82-1	0.5	mg/kg	<0.5	1 mg/kg	82.7	48	122
EP074: 1.2.3-Trichlorobenzene	87-61-6	0.5	mg/kg	<0.5	1 mg/kg	76.4	52	122
EP074G: Trihalomethanes (QCLot: 796793)								
EP074: Chloroform	67-66-3	0.5	mg/kg	<0.5	1 mg/kg	78.8	66	124
EP074: Bromodichloromethane	75-27-4	0.5	mg/kg	<0.5	1 mg/kg	78.3	61	121
EP074: Dibromochloromethane	124-48-1	0.5	mg/kg	<0.5	1 mg/kg	87.0	63	121
EP074: Bromoform	75-25-2	0.5	mg/kg	<0.5	1 mg/kg	103	60	126
EP074H: Naphthalene (QCLot: 796793)								
EP074: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	86.0	67	129
EP075(SIM)A: Phenolic Compounds (QCLot: 793422)								
EP075(SIM): Phenol	108-95-2	0.5	mg/kg	<0.5	6 mg/kg	103	71	125
EP075(SIM): 2-Chlorophenol	95-57-8	0.5	mg/kg	<0.5	6 mg/kg	108	72	124
EP075(SIM): 2-Methylphenol	95-48-7	0.5	mg/kg	<0.5	6 mg/kg	108	71	123
EP075(SIM): 3- & 4-Methylphenol	1319-77-3	1	mg/kg	<1	12 mg/kg	117	67	127
EP075(SIM): 2-Nitrophenol	88-75-5	0.5	mg/kg	<0.5	6 mg/kg	82.5	54	114
EP075(SIM): 2.4-Dimethylphenol	105-67-9	0.5	mg/kg	<0.5	6 mg/kg	110	68	126
EP075(SIM): 2.4-Dichlorophenol	120-83-2	0.5	mg/kg	<0.5	6 mg/kg	104	66	120
EP075(SIM): 2.6-Dichlorophenol	87-65-0	0.5	mg/kg	<0.5	6 mg/kg	108	70	120
EP075(SIM): 4-Chloro-3-methylphenol	59-50-7	0.5	mg/kg	<0.5	6 mg/kg	100.0	70	116
EP075(SIM): 2.4.6-Trichlorophenol	88-06-2	0.5	mg/kg	<0.5	6 mg/kg	95.5	54	114

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High
EP075(SIM)A: Phenolic Compounds (QCLot: 793422) - continued								
EP075(SIM): 2.4.5-Trichlorophenol	95-95-4	0.5	mg/kg	<0.5	6 mg/kg	100	60	114
EP075(SIM): Pentachlorophenol	87-86-5	2	mg/kg	<2	12 mg/kg	18.6	10	57
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 793422)								
EP075(SIM): Naphthalene	91-20-3	0.5	mg/kg	<0.5	6 mg/kg	106	77	125
EP075(SIM): Acenaphthylene	208-96-8	0.5	mg/kg	<0.5	6 mg/kg	107	72	124
EP075(SIM): Acenaphthene	83-32-9	0.5	mg/kg	<0.5	6 mg/kg	116	73	127
EP075(SIM): Fluorene	86-73-7	0.5	mg/kg	<0.5	6 mg/kg	110	72	126
EP075(SIM): Phenanthrene	85-01-8	0.5	mg/kg	<0.5	6 mg/kg	108	75	127
EP075(SIM): Anthracene	120-12-7	0.5	mg/kg	<0.5	6 mg/kg	110	77	127
EP075(SIM): Fluoranthene	206-44-0	0.5	mg/kg	<0.5	6 mg/kg	110	73	127
EP075(SIM): Pyrene	129-00-0	0.5	mg/kg	<0.5	6 mg/kg	111	74	128
EP075(SIM): Benz(a)anthracene	56-55-3	0.5	mg/kg	<0.5	6 mg/kg	95.2	69	123
EP075(SIM): Chrysene	218-01-9	0.5	mg/kg	<0.5	6 mg/kg	100	75	127
EP075(SIM): Benzo(b+j)fluoranthene	205-99-2 205-82-3	0.5	mg/kg	<0.5	6 mg/kg	88.4	68	116
EP075(SIM): Benzo(k)fluoranthene	207-08-9	0.5	mg/kg	<0.5	6 mg/kg	99.0	74	126
EP075(SIM): Benzo(a)pyrene	50-32-8	0.5	mg/kg	<0.5	6 mg/kg	102	70	126
EP075(SIM): Indeno(1.2.3.cd)pyrene	193-39-5	0.5	mg/kg	<0.5	6 mg/kg	95.2	61	121
EP075(SIM): Dibenz(a.h)anthracene	53-70-3	0.5	mg/kg	<0.5	6 mg/kg	99.7	62	118
EP075(SIM): Benzo(g.h.i)perylene	191-24-2	0.5	mg/kg	<0.5	6 mg/kg	95.2	63	121
EP080/071: Total Petroleum Hydrocarbons (QCLot: 793421)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	200 mg/kg	95.6	75	129
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	300 mg/kg	105	77	131
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	200 mg/kg	106	71	129
EP080/071: Total Petroleum Hydrocarbons (QCLot: 796792)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	26 mg/kg	71.3	68	128
EP080/071: Total Petroleum Hydrocarbons (QCLot: 876078)								
EP071: C10 - C14 Fraction	----	50	mg/kg	<50	200 mg/kg	99.8	75	129
EP071: C15 - C28 Fraction	----	100	mg/kg	<100	300 mg/kg	101	77	131
EP071: C29 - C36 Fraction	----	100	mg/kg	<100	200 mg/kg	94.5	71	129
EP080/071: Total Petroleum Hydrocarbons (QCLot: 876272)								
EP080: C6 - C9 Fraction	----	10	mg/kg	<10	26 mg/kg	70.8	68	128
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 793421)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	250 mg/kg	97.4	77	125
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	350 mg/kg	108	74	138
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	150 mg/kg	99.7	63	131
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 796792)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	31 mg/kg	70.3	68	128

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 876078)								
EP071: >C10 - C16 Fraction	----	50	mg/kg	<50	250 mg/kg	102	77	125
EP071: >C16 - C34 Fraction	----	100	mg/kg	<100	350 mg/kg	106	74	138
EP071: >C34 - C40 Fraction	----	100	mg/kg	<100	150 mg/kg	95.5	63	131
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 876272)								
EP080: C6 - C10 Fraction	C6_C10	10	mg/kg	<10	31 mg/kg	70.7	68	128
EP080: BTEXN (QCLot: 796792)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	76.9	62	116
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	77.0	67	121
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	86.2	65	117
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	88.8	66	118
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	85.2	68	120
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	74.6	63	119
EP080: BTEXN (QCLot: 876272)								
EP080: Benzene	71-43-2	0.2	mg/kg	<0.2	1 mg/kg	77.7	62	116
EP080: Toluene	108-88-3	0.5	mg/kg	<0.5	1 mg/kg	73.6	67	121
EP080: Ethylbenzene	100-41-4	0.5	mg/kg	<0.5	1 mg/kg	68.4	65	117
EP080: meta- & para-Xylene	108-38-3 106-42-3	0.5	mg/kg	<0.5	2 mg/kg	68.7	66	118
EP080: ortho-Xylene	95-47-6	0.5	mg/kg	<0.5	1 mg/kg	69.1	68	120
EP080: Naphthalene	91-20-3	1	mg/kg	<1	1 mg/kg	78.6	63	119

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High
EG020F: Dissolved Metals by ICP-MS (QCLot: 800522)								
EG020A-F: Arsenic	7440-38-2	0.001	mg/L	<0.001	0.1 mg/L	104	85	114
EG020A-F: Cadmium	7440-43-9	0.0001	mg/L	<0.0001	0.1 mg/L	93.1	84	110
EG020A-F: Chromium	7440-47-3	0.001	mg/L	<0.001	0.1 mg/L	102	85	111
EG020A-F: Copper	7440-50-8	0.001	mg/L	<0.001	0.1 mg/L	101	81	111
EG020A-F: Lead	7439-92-1	0.001	mg/L	<0.001	0.1 mg/L	93.7	83	111
EG020A-F: Nickel	7440-02-0	0.001	mg/L	<0.001	0.1 mg/L	99.6	82	112
EG020A-F: Zinc	7440-66-6	0.005	mg/L	<0.005	0.1 mg/L	100	81	117
EG035F: Dissolved Mercury by FIMS (QCLot: 800523)								
EG035F: Mercury	7439-97-6	0.0001	mg/L	<0.0001	0.01 mg/L	88.7	83	105
EP080/071: Total Petroleum Hydrocarbons (QCLot: 793506)								
EP071: C10 - C14 Fraction	----	50	µg/L	<50	2000 µg/L	98.4	76	116
EP071: C15 - C28 Fraction	----	100	µg/L	<100	3000 µg/L	96.9	83	109
EP071: C29 - C36 Fraction	----	50	µg/L	<50	2000 µg/L	89.5	75	113

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Recovery Limits (%): Low	Recovery Limits (%): High
EP080/071: Total Petroleum Hydrocarbons (QCLot: 794598)								
EP080: C6 - C9 Fraction	----	20	µg/L	<20	260 µg/L	97.5	75	127
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 793506)								
EP071: >C10 - C16 Fraction	----	100	µg/L	<100	2500 µg/L	102	76	114
EP071: >C16 - C34 Fraction	----	100	µg/L	<100	3500 µg/L	99.4	81	111
EP071: >C34 - C40 Fraction	----	100	µg/L	<100	1500 µg/L	87.5	77	119
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 794598)								
EP080: C6 - C10 Fraction	C6_C10	20	µg/L	<20	310 µg/L	101	75	127
EP080: BTEXN (QCLot: 794598)								
EP080: Benzene	71-43-2	1	µg/L	<1	10 µg/L	88.8	70	122
EP080: Toluene	108-88-3	2	µg/L	<2	10 µg/L	86.1	69	123
EP080: Ethylbenzene	100-41-4	2	µg/L	<2	10 µg/L	82.4	70	120
EP080: meta- & para-Xylene	108-38-3 106-42-3	2	µg/L	<2	10 µg/L	82.7	69	121
EP080: ortho-Xylene	95-47-6	2	µg/L	<2	10 µg/L	87.6	72	122
EP080: Naphthalene	91-20-3	5	µg/L	<5	10 µg/L	99.0	70	120

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **SOIL**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Recovery Limits (%): Low	Recovery Limits (%): High
EG005T: Total Metals by ICP-AES (QCLot: 796803)							
ES1705737-021	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	92.7	70	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	97.0	70	130
		EG005T: Chromium	7440-47-3	50 mg/kg	95.6	70	130
		EG005T: Copper	7440-50-8	250 mg/kg	96.4	70	130
		EG005T: Lead	7439-92-1	250 mg/kg	97.8	70	130
		EG005T: Nickel	7440-02-0	50 mg/kg	96.4	70	130
		EG005T: Zinc	7440-66-6	250 mg/kg	101	70	130
EG005T: Total Metals by ICP-AES (QCLot: 876176)							
EM1705493-001	Anonymous	EG005T: Arsenic	7440-38-2	50 mg/kg	91.6	70	130
		EG005T: Cadmium	7440-43-9	50 mg/kg	92.9	70	130
		EG005T: Chromium	7440-47-3	50 mg/kg	90.8	70	130
		EG005T: Copper	7440-50-8	250 mg/kg	93.2	70	130
		EG005T: Lead	7439-92-1	250 mg/kg	93.5	70	130
		EG005T: Nickel	7440-02-0	50 mg/kg	89.0	70	130

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Recovery Limits (%)	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG005T: Total Metals by ICP-AES (QCLot: 876176) - continued							
EM1705493-001	Anonymous	EG005T: Zinc	7440-66-6	250 mg/kg	92.7	70	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 796804)							
ES1706075-001	S1	EG035T: Mercury	7439-97-6	5 mg/kg	130	70	130
EG035T: Total Recoverable Mercury by FIMS (QCLot: 876175)							
EM1705493-001	Anonymous	EG035T: Mercury	7439-97-6	5 mg/kg	116	70	130
EP066: Polychlorinated Biphenyls (PCB) (QCLot: 793423)							
ES1706075-005	S6	EP066: Total Polychlorinated biphenyls	----	1 mg/kg	115	70	130
EP068A: Organochlorine Pesticides (OC) (QCLot: 793420)							
ES1706075-005	S6	EP068: gamma-BHC	58-89-9	0.5 mg/kg	95.6	70	130
		EP068: Heptachlor	76-44-8	0.5 mg/kg	104	70	130
		EP068: Aldrin	309-00-2	0.5 mg/kg	92.4	70	130
		EP068: Dieldrin	60-57-1	0.5 mg/kg	96.3	70	130
		EP068: Endrin	72-20-8	2 mg/kg	90.5	70	130
		EP068: 4.4`-DDT	50-29-3	2 mg/kg	99.5	70	130
EP068B: Organophosphorus Pesticides (OP) (QCLot: 793420)							
ES1706075-005	S6	EP068: Diazinon	333-41-5	0.5 mg/kg	87.2	70	130
		EP068: Chlorpyrifos-methyl	5598-13-0	0.5 mg/kg	88.1	70	130
		EP068: Pirimphos-ethyl	23505-41-1	0.5 mg/kg	81.8	70	130
		EP068: Bromophos-ethyl	4824-78-6	0.5 mg/kg	87.1	70	130
		EP068: Prothiofos	34643-46-4	0.5 mg/kg	92.6	70	130
EP074A: Monocyclic Aromatic Hydrocarbons (QCLot: 796793)							
ES1706075-002	S2	EP074: Benzene	71-43-2	2.5 mg/kg	84.2	70	130
		EP074: Toluene	108-88-3	2.5 mg/kg	86.3	70	130
EP074E: Halogenated Aliphatic Compounds (QCLot: 796793)							
ES1706075-002	S2	EP074: 1.1-Dichloroethene	75-35-4	2.5 mg/kg	78.2	70	130
		EP074: Trichloroethene	79-01-6	2.5 mg/kg	75.7	70	130
EP074F: Halogenated Aromatic Compounds (QCLot: 796793)							
ES1706075-002	S2	EP074: Chlorobenzene	108-90-7	2.5 mg/kg	79.6	70	130
EP075(SIM)A: Phenolic Compounds (QCLot: 793422)							
ES1706075-005	S6	EP075(SIM): Phenol	108-95-2	10 mg/kg	99.0	70	130
		EP075(SIM): 2-Chlorophenol	95-57-8	10 mg/kg	104	70	130
		EP075(SIM): 2-Nitrophenol	88-75-5	10 mg/kg	94.2	60	130
		EP075(SIM): 4-Chloro-3-methylphenol	59-50-7	10 mg/kg	98.3	70	130
		EP075(SIM): Pentachlorophenol	87-86-5	10 mg/kg	68.8	20	130
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 793422)							
ES1706075-005	S6						

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Recovery Limits (%)	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons (QCLot: 793422) - continued							
ES1706075-005	S6	EP075(SIM): Acenaphthene	83-32-9	10 mg/kg	103	70	130
		EP075(SIM): Pyrene	129-00-0	10 mg/kg	108	70	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 793421)							
ES1706075-005	S6	EP071: C10 - C14 Fraction	----	523 mg/kg	103	73	137
		EP071: C15 - C28 Fraction	----	2319 mg/kg	115	53	131
		EP071: C29 - C36 Fraction	----	1714 mg/kg	122	52	132
EP080/071: Total Petroleum Hydrocarbons (QCLot: 796792)							
ES1706075-002	S2	EP080: C6 - C9 Fraction	----	32.5 mg/kg	78.3	70	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 876078)							
ES1710935-006	Anonymous	EP071: C10 - C14 Fraction	----	523 mg/kg	82.2	73	137
		EP071: C15 - C28 Fraction	----	2319 mg/kg	111	53	131
		EP071: C29 - C36 Fraction	----	1714 mg/kg	128	52	132
EP080/071: Total Petroleum Hydrocarbons (QCLot: 876272)							
ES1710954-004	Anonymous	EP080: C6 - C9 Fraction	----	32.5 mg/kg	96.1	70	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 793421)							
ES1706075-005	S6	EP071: >C10 - C16 Fraction	----	860 mg/kg	104	73	137
		EP071: >C16 - C34 Fraction	----	3223 mg/kg	122	53	131
		EP071: >C34 - C40 Fraction	----	1058 mg/kg	106	52	132
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 796792)							
ES1706075-002	S2	EP080: C6 - C10 Fraction	C6_C10	37.5 mg/kg	71.0	70	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 876078)							
ES1710935-006	Anonymous	EP071: >C10 - C16 Fraction	----	860 mg/kg	103	73	137
		EP071: >C16 - C34 Fraction	----	3223 mg/kg	113	53	131
		EP071: >C34 - C40 Fraction	----	1058 mg/kg	131	52	132
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 876272)							
ES1710954-004	Anonymous	EP080: C6 - C10 Fraction	C6_C10	37.5 mg/kg	96.5	70	130
EP080: BTEXN (QCLot: 796792)							
ES1706075-002	S2	EP080: Benzene	71-43-2	2.5 mg/kg	75.3	70	130
		EP080: Toluene	108-88-3	2.5 mg/kg	77.2	70	130
		EP080: Ethylbenzene	100-41-4	2.5 mg/kg	80.3	70	130
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2.5 mg/kg	73.5	70	130
		EP080: ortho-Xylene	95-47-6	2.5 mg/kg	74.6	70	130
		EP080: Naphthalene	91-20-3	2.5 mg/kg	72.4	70	130
EP080: BTEXN (QCLot: 876272)							
ES1710954-004	Anonymous	EP080: Benzene	71-43-2	2.5 mg/kg	92.8	70	130

Sub-Matrix: **SOIL**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%) MS	Recovery Limits (%) Low	High
EP080: BTEXN (QCLot: 876272) - continued							
ES1710954-004	Anonymous	EP080: Toluene	108-88-3	2.5 mg/kg	89.6	70	130
		EP080: Ethylbenzene	100-41-4	2.5 mg/kg	90.0	70	130
		EP080: meta- & para-Xylene	108-38-3 106-42-3	2.5 mg/kg	89.4	70	130
		EP080: ortho-Xylene	95-47-6	2.5 mg/kg	89.4	70	130
		EP080: Naphthalene	91-20-3	2.5 mg/kg	92.8	70	130

Sub-Matrix: **WATER**

Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%) MS	Recovery Limits (%) Low	High
EG020F: Dissolved Metals by ICP-MS (QCLot: 800522)							
ES1706447-001	Anonymous	EG020A-F: Arsenic	7440-38-2	1 mg/L	103	70	130
		EG020A-F: Cadmium	7440-43-9	0.25 mg/L	96.5	70	130
		EG020A-F: Chromium	7440-47-3	1 mg/L	98.8	70	130
		EG020A-F: Copper	7440-50-8	1 mg/L	97.2	70	130
		EG020A-F: Lead	7439-92-1	1 mg/L	96.0	70	130
		EG020A-F: Nickel	7440-02-0	1 mg/L	96.5	70	130
		EG020A-F: Zinc	7440-66-6	1 mg/L	106	70	130
EG035F: Dissolved Mercury by FIMS (QCLot: 800523)							
ES1706075-013	RB01	EG035F: Mercury	7439-97-6	0.01 mg/L	78.4	70	130
EP080/071: Total Petroleum Hydrocarbons (QCLot: 794598)							
ES1706118-003	Anonymous	EP080: C6 - C9 Fraction	----	325 µg/L	112	70	130
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions (QCLot: 794598)							
ES1706118-003	Anonymous	EP080: C6 - C10 Fraction	C6_C10	375 µg/L	112	70	130
EP080: BTEXN (QCLot: 794598)							
ES1706118-003	Anonymous	EP080: Benzene	71-43-2	25 µg/L	81.1	70	130
		EP080: Toluene	108-88-3	25 µg/L	90.1	70	130
		EP080: Ethylbenzene	100-41-4	25 µg/L	94.4	70	130
		EP080: meta- & para-Xylene	108-38-3 106-42-3	25 µg/L	93.3	70	130
		EP080: ortho-Xylene	95-47-6	25 µg/L	97.5	70	130
		EP080: Naphthalene	91-20-3	25 µg/L	106	70	130

ALS Environmental

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **ES1706075**	Page	: 1 of 11
Amendment	: **1**		
Client	: **SMEC TESTING SERVICES PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR EDWIN TRUJILLO	Telephone	: +61-2-8784 8555
Project	: 21192/7558C	Date Samples Received	: 14-Mar-2017
Site	: ----	Issue Date	: 10-May-2017
Sampler	: ----	No. of samples received	: 14
Order number	: E-2017-132	No. of samples analysed	: 14

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **NO Matrix Spike outliers occur.**
- **For all regular sample matrices, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **Analysis Holding Time Outliers exist - please see following pages for full details.**

Outliers : Frequency of Quality Control Samples

- **Quality Control Sample Frequency Outliers exist - please see following pages for full details.**

Outliers : Analysis Holding Time Compliance

Matrix: **SOIL**

Method / Container / Client Sample ID(s)	Extraction / Preparation			Analysis		
	Date extracted	Due for extraction	Days overdue	Date analysed	Due for analysis	Days overdue
EG035T: Total Recoverable Mercury by FIMS						
Soil Glass Jar - Unpreserved S3	09-May-2017	07-Apr-2017	**32**	09-May-2017	07-Apr-2017	**32**
EP080/071: Total Petroleum Hydrocarbons						
Soil Glass Jar - Unpreserved S3	09-May-2017	24-Mar-2017	**46**	09-May-2017	24-Mar-2017	**46**
Soil Glass Jar - Unpreserved S3	09-May-2017	24-Mar-2017	**46**	----	----	----
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions						
Soil Glass Jar - Unpreserved S3	09-May-2017	24-Mar-2017	**46**	09-May-2017	24-Mar-2017	**46**
Soil Glass Jar - Unpreserved S3	09-May-2017	24-Mar-2017	**46**	----	----	----
EP080: BTEXN						
Soil Glass Jar - Unpreserved S3	09-May-2017	24-Mar-2017	**46**	09-May-2017	24-Mar-2017	**46**

Outliers : Frequency of Quality Control Samples

Matrix: **SOIL**

Quality Control Sample Type / Method	Count		Rate (%)		Quality Control Specification
	QC	Regular	Actual	Expected	
Laboratory Duplicates (DUP)					
Moisture Content	3	31	9.68	10.00	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER**

Quality Control Sample Type / Method	Count		Rate (%)		Quality Control Specification
	QC	Regular	Actual	Expected	
Laboratory Duplicates (DUP)					
Dissolved Mercury by FIMS	0	1	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	0	6	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)					
TRH - Semivolatile Fraction	0	6	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / *Container / Client Sample ID(s)*		*Sample Date*	*Extraction / Preparation*			*Analysis*		
			Date extracted	*Due for extraction*	*Evaluation*	*Date analysed*	*Due for analysis*	*Evaluation*
EA055: Moisture Content								
Soil Glass Jar - Unpreserved (EA055-103)								
S1,	S2,	**10-Mar-2017**	**----**	----	----	**16-Mar-2017**	24-Mar-2017	✓
S3,	S4,							
S6,	S7,							
S8,	S9,							
S10,	S11,							
S12,	S13,							
TB01								
EA200: AS 4964 - 2004 Identification of Asbestos in Soils								
Snap Lock Bag (EA200)								
S1,	S2,	**10-Mar-2017**	**----**	----	----	**20-Mar-2017**	06-Sep-2017	✓
S3,	S8,							
S10,	S12							
EA200N: Asbestos Quantification (non-NATA)								
Snap Lock Bag (EA200N)								
S1,	S2,	**10-Mar-2017**	**----**	----	----	**20-Mar-2017**	06-Sep-2017	✓
S3,	S8,							
S10,	S12							
EG005T: Total Metals by ICP-AES								
Soil Glass Jar - Unpreserved (EG005T)								
S3		**10-Mar-2017**	**09-May-2017**	06-Sep-2017	✓	**09-May-2017**	06-Sep-2017	✓
Soil Glass Jar - Unpreserved (EG005T)								
S1,	S2,	**10-Mar-2017**	**17-Mar-2017**	06-Sep-2017	✓	**17-Mar-2017**	06-Sep-2017	✓
S4,	S6,							
S7,	S8,							
S9,	S11,							
S12,	S13							

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EG035T: Total Recoverable Mercury by FIMS							
Soil Glass Jar - Unpreserved (EG035T) S3	**10-Mar-2017**	**09-May-2017**	07-Apr-2017	×	**09-May-2017**	07-Apr-2017	×
Soil Glass Jar - Unpreserved (EG035T) S1, S2, S4, S6, S7, S8, S9, S11, S12, S13	**10-Mar-2017**	**17-Mar-2017**	07-Apr-2017	✓	**17-Mar-2017**	07-Apr-2017	✓
EP066: Polychlorinated Biphenyls (PCB)							
Soil Glass Jar - Unpreserved (EP066) S6, S12	**10-Mar-2017**	**16-Mar-2017**	24-Mar-2017	✓	**17-Mar-2017**	25-Apr-2017	✓
EP068A: Organochlorine Pesticides (OC)							
Soil Glass Jar - Unpreserved (EP068) S1, S2, S3, S6, S7, S8, S9, S10, S11, S12, S13	**10-Mar-2017**	**16-Mar-2017**	24-Mar-2017	✓	**17-Mar-2017**	25-Apr-2017	✓
EP068B: Organophosphorus Pesticides (OP)							
Soil Glass Jar - Unpreserved (EP068) S1, S2, S3, S6, S7, S8, S9, S10, S11, S12, S13	**10-Mar-2017**	**16-Mar-2017**	24-Mar-2017	✓	**17-Mar-2017**	25-Apr-2017	✓
EP074A: Monocyclic Aromatic Hydrocarbons							
Soil Glass Jar - Unpreserved (EP074) S2, S6, S12	**10-Mar-2017**	**17-Mar-2017**	17-Mar-2017	✓	**17-Mar-2017**	17-Mar-2017	✓
EP074B: Oxygenated Compounds							
Soil Glass Jar - Unpreserved (EP074) S2, S6, S12	**10-Mar-2017**	**17-Mar-2017**	17-Mar-2017	✓	**17-Mar-2017**	17-Mar-2017	✓
EP074C: Sulfonated Compounds							
Soil Glass Jar - Unpreserved (EP074) S2, S6, S12	**10-Mar-2017**	**17-Mar-2017**	17-Mar-2017	✓	**17-Mar-2017**	17-Mar-2017	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP074D: Fumigants							
Soil Glass Jar - Unpreserved (EP074) S2, S6, S12	**10-Mar-2017**	**17-Mar-2017**	17-Mar-2017	✓	**17-Mar-2017**	17-Mar-2017	✓
EP074E: Halogenated Aliphatic Compounds							
Soil Glass Jar - Unpreserved (EP074) S2, S6, S12	**10-Mar-2017**	**17-Mar-2017**	17-Mar-2017	✓	**17-Mar-2017**	17-Mar-2017	✓
EP074F: Halogenated Aromatic Compounds							
Soil Glass Jar - Unpreserved (EP074) S2, S6, S12	**10-Mar-2017**	**17-Mar-2017**	17-Mar-2017	✓	**17-Mar-2017**	17-Mar-2017	✓
EP074G: Trihalomethanes							
Soil Glass Jar - Unpreserved (EP074) S2, S6, S12	**10-Mar-2017**	**17-Mar-2017**	17-Mar-2017	✓	**17-Mar-2017**	17-Mar-2017	✓
EP074H: Naphthalene							
Soil Glass Jar - Unpreserved (EP074) S2, S6, S12	**10-Mar-2017**	**17-Mar-2017**	17-Mar-2017	✓	**17-Mar-2017**	17-Mar-2017	✓
EP075(SIM)A: Phenolic Compounds							
Soil Glass Jar - Unpreserved (EP075(SIM)) S6, S12	**10-Mar-2017**	**16-Mar-2017**	24-Mar-2017	✓	**17-Mar-2017**	25-Apr-2017	✓
EP075(SIM)B: Polynuclear Aromatic Hydrocarbons							
Soil Glass Jar - Unpreserved (EP075(SIM)) S6, S10, S12	**10-Mar-2017**	**16-Mar-2017**	24-Mar-2017	✓	**17-Mar-2017**	25-Apr-2017	✓
EP080/071: Total Petroleum Hydrocarbons							
Soil Glass Jar - Unpreserved (EP071) S3	**10-Mar-2017**	**09-May-2017**	24-Mar-2017	×	**10-May-2017**	18-Jun-2017	✓
Soil Glass Jar - Unpreserved (EP080) S3	**10-Mar-2017**	**09-May-2017**	24-Mar-2017	×	**09-May-2017**	24-Mar-2017	×
Soil Glass Jar - Unpreserved (EP071) S1, S2, S4, S6, S10, S12	**10-Mar-2017**	**16-Mar-2017**	24-Mar-2017	✓	**17-Mar-2017**	25-Apr-2017	✓
Soil Glass Jar - Unpreserved (EP080) S1, S2, S4, S6, S10, S12, TB01	**10-Mar-2017**	**17-Mar-2017**	24-Mar-2017	✓	**17-Mar-2017**	24-Mar-2017	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation: Date extracted	Extraction / Preparation: Due for extraction	Extraction / Preparation: Evaluation	Analysis: Date analysed	Analysis: Due for analysis	Analysis: Evaluation
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Soil Glass Jar - Unpreserved (EP071) S3	**10-Mar-2017**	**09-May-2017**	24-Mar-2017	×	**10-May-2017**	18-Jun-2017	✓
Soil Glass Jar - Unpreserved (EP080) S3	**10-Mar-2017**	**09-May-2017**	24-Mar-2017	×	**09-May-2017**	24-Mar-2017	×
Soil Glass Jar - Unpreserved (EP071) S1, S2, S4, S6, S10, S12	**10-Mar-2017**	**16-Mar-2017**	24-Mar-2017	✓	**17-Mar-2017**	25-Apr-2017	✓
Soil Glass Jar - Unpreserved (EP080) S1, S2, S4, S6, S10, S12, TB01	**10-Mar-2017**	**17-Mar-2017**	24-Mar-2017	✓	**17-Mar-2017**	24-Mar-2017	✓
EP080: BTEXN							
Soil Glass Jar - Unpreserved (EP080) S3	**10-Mar-2017**	**09-May-2017**	24-Mar-2017	×	**09-May-2017**	24-Mar-2017	×
Soil Glass Jar - Unpreserved (EP080) S1, S2, S4, S6, S10, S12, TB01	**10-Mar-2017**	**17-Mar-2017**	24-Mar-2017	✓	**17-Mar-2017**	24-Mar-2017	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation: Date extracted	Extraction / Preparation: Due for extraction	Extraction / Preparation: Evaluation	Analysis: Date analysed	Analysis: Due for analysis	Analysis: Evaluation
EG020F: Dissolved Metals by ICP-MS							
Clear Plastic Bottle - Nitric Acid; Filtered (EG020A-F) RB01	**10-Mar-2017**	**----**	----	----	**21-Mar-2017**	06-Sep-2017	✓
EG035F: Dissolved Mercury by FIMS							
Clear Plastic Bottle - Nitric Acid; Filtered (EG035F) RB01	**10-Mar-2017**	**----**	----	----	**21-Mar-2017**	07-Apr-2017	✓
EP080/071: Total Petroleum Hydrocarbons							
Amber Glass Bottle - Unpreserved (EP071) RB01	**10-Mar-2017**	**16-Mar-2017**	17-Mar-2017	✓	**16-Mar-2017**	25-Apr-2017	✓
Amber VOC Vial - Sulfuric Acid (EP080) RB01	**10-Mar-2017**	**16-Mar-2017**	24-Mar-2017	✓	**16-Mar-2017**	24-Mar-2017	✓
EP080/071: Total Recoverable Hydrocarbons - NEPM 2013 Fractions							
Amber Glass Bottle - Unpreserved (EP071) RB01	**10-Mar-2017**	**16-Mar-2017**	17-Mar-2017	✓	**16-Mar-2017**	25-Apr-2017	✓
Amber VOC Vial - Sulfuric Acid (EP080) RB01	**10-Mar-2017**	**16-Mar-2017**	24-Mar-2017	✓	**16-Mar-2017**	24-Mar-2017	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP080: BTEXN							
Amber VOC Vial - Sulfuric Acid (EP080)							
RB01	**10-Mar-2017**	**16-Mar-2017**	24-Mar-2017	✓	**16-Mar-2017**	24-Mar-2017	✓

Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
Moisture Content	EA055-103	3	31	9.68	10.00	×	NEPM 2013 B3 & ALS QC Standard
PAH/Phenols (SIM)	EP075(SIM)	1	6	16.67	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	2	14	14.29	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	5	20.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	4	26	15.38	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	4	26	15.38	10.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	3	30	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	4	30	13.33	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	2	9	22.22	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
PAH/Phenols (SIM)	EP075(SIM)	1	6	16.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	14	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	5	20.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	26	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	26	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	2	30	6.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	30	6.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	9	11.11	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
PAH/Phenols (SIM)	EP075(SIM)	1	6	16.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	14	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	5	20.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	26	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	26	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	2	30	6.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	30	6.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	9	11.11	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
PAH/Phenols (SIM)	EP075(SIM)	1	6	16.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Pesticides by GCMS	EP068	1	14	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Polychlorinated Biphenyls (PCB)	EP066	1	5	20.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Mercury by FIMS	EG035T	2	26	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Metals by ICP-AES	EG005T	2	26	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	2	30	6.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	30	6.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Volatile Organic Compounds	EP074	1	9	11.11	5.00	✓	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Dissolved Mercury by FIMS	EG035F	0	1	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	2	1	**200.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	6	**0.00**	**10.00**	×	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	2	20	**10.00**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Dissolved Mercury by FIMS	EG035F	1	1	**100.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	1	1	**100.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	6	**16.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Dissolved Mercury by FIMS	EG035F	1	1	**100.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	1	1	**100.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	1	6	**16.67**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Dissolved Mercury by FIMS	EG035F	1	1	**100.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Metals by ICP-MS - Suite A	EG020A-F	1	1	**100.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
TRH - Semivolatile Fraction	EP071	0	6	**0.00**	**5.00**	×	NEPM 2013 B3 & ALS QC Standard
TRH Volatiles/BTEX	EP080	1	20	**5.00**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055-103	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 103-105 degrees C. This method is compliant with NEPM (2013) Schedule B(3) Section 7.1 and Table 1 (14 day holding time).
Asbestos Identification in Soils	EA200	SOIL	AS 4964 - 2004 Method for the qualitative identification of asbestos in bulk samples Analysis by Polarised Light Microscopy including dispersion staining
Asbestos Classification and Quantitation per NEPM 2013	* EA200N	SOIL	Asbestos Classification and Quantitation per NEPM 2013 with Confirmation of Identification by AS 4964 - 2004 Gravimetric determination of Asbestos Containing Material, Friable Asbestos and sample weight and calculation of percentage concentrations per NEPM protocols. Friable Asbestos is reported as the equivalent weight in the sample received after accounting for sub-sampling (where applicable for the <7mm and/or <2mm fractions).
Total Metals by ICP-AES	EG005T	SOIL	In house: Referenced to APHA 3120; USEPA SW 846 - 6010. Metals are determined following an appropriate acid digestion of the soil. The ICPAES technique ionises samples in a plasma, emitting a characteristic spectrum based on metals present. Intensities at selected wavelengths are compared against those of matrix matched standards. This method is compliant with NEPM (2013) Schedule B(3)
Total Mercury by FIMS	EG035T	SOIL	In house: Referenced to AS 3550, APHA 3112 Hg - B (Flow-injection (SnCl2)(Cold Vapour generation) AAS) FIM-AAS is an automated flameless atomic absorption technique. Mercury in solids are determined following an appropriate acid digestion. Ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM (2013) Schedule B(3)
Polychlorinated Biphenyls (PCB)	EP066	SOIL	In house: Referenced to USEPA SW 846 - 8270D Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (2013) Schedule B(3) (Method 504)
Pesticides by GCMS	EP068	SOIL	In house: Referenced to USEPA SW 846 - 8270D Extracts are analysed by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. This technique is compliant with NEPM (2013) Schedule B(3) (Method 504,505)
TRH - Semivolatile Fraction	EP071	SOIL	In house: Referenced to USEPA SW 846 - 8015A Sample extracts are analysed by Capillary GC/FID and quantified against alkane standards over the range C10 - C40.
Volatile Organic Compounds	EP074	SOIL	In house: Referenced to USEPA SW 846 - 8260B Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (2013) Schedule B(3) (Method 501)
PAH/Phenols (SIM)	EP075(SIM)	SOIL	In house: Referenced to USEPA SW 846 - 8270D Extracts are analysed by Capillary GC/MS in Selective Ion Mode (SIM) and quantification is by comparison against an established 5 point calibration curve. This method is compliant with NEPM (2013) Schedule B(3) (Method 502 and 507)
TRH Volatiles/BTEX	EP080	SOIL	In house: Referenced to USEPA SW 846 - 8260B Extracts are analysed by Purge and Trap, Capillary GC/MS. Quantification is by comparison against an established 5 point calibration curve.
Dissolved Metals by ICP-MS - Suite A	EG020A-F	WATER	In house: Referenced to APHA 3125; USEPA SW846 - 6020, ALS QWI-EN/EG020. Samples are 0.45µm filtered prior to analysis. The ICPMS technique utilizes a highly efficient argon plasma to ionize selected elements. Ions are then passed into a high vacuum mass spectrometer, which separates the analytes based on their distinct mass to charge ratios prior to their measurement by a discrete dynode ion detector.

Analytical Methods	Method	Matrix	Method Descriptions
Dissolved Mercury by FIMS	EG035F	WATER	In house: Referenced to AS 3550, APHA 3112 Hg - B (Flow-injection (SnCl2)(Cold Vapour generation) AAS) Samples are 0.45µm filtered prior to analysis. FIM-AAS is an automated flameless atomic absorption technique. A bromate/bromide reagent is used to oxidise any organic mercury compounds in the filtered sample. The ionic mercury is reduced online to atomic mercury vapour by SnCl2 which is then purged into a heated quartz cell. Quantification is by comparing absorbance against a calibration curve. This method is compliant with NEPM (2013) Schedule B(3)
TRH - Semivolatile Fraction	EP071	WATER	In house: Referenced to USEPA SW 846 - 8015A The sample extract is analysed by Capillary GC/FID and quantification is by comparison against an established 5 point calibration curve of n-Alkane standards. This method is compliant with the QC requirements of NEPM (2013) Schedule B(3)
TRH Volatiles/BTEX	EP080	WATER	In house: Referenced to USEPA SW 846 - 8260B Water samples are directly purged prior to analysis by Capillary GC/MS and quantification is by comparison against an established 5 point calibration curve. Alternatively, a sample is equilibrated in a headspace vial and a portion of the headspace determined by GCMS analysis. This method is compliant with the QC requirements of NEPM (2013) Schedule B(3)

Preparation Methods	Method	Matrix	Method Descriptions
Hot Block Digest for metals in soils sediments and sludges	EN69	SOIL	In house: Referenced to USEPA 200.2. Hot Block Acid Digestion 1.0g of sample is heated with Nitric and Hydrochloric acids, then cooled. Peroxide is added and samples heated and cooled again before being filtered and bulked to volume for analysis. Digest is appropriate for determination of selected metals in sludge, sediments, and soils. This method is compliant with NEPM (2013) Schedule B(3) (Method 202)
Methanolic Extraction of Soils for Purge and Trap	* ORG16	SOIL	In house: Referenced to USEPA SW 846 - 5030A. 5g of solid is shaken with surrogate and 10mL methanol prior to analysis by Purge and Trap - GC/MS.
Tumbler Extraction of Solids	ORG17	SOIL	In house: Mechanical agitation (tumbler). 10g of sample, Na2SO4 and surrogate are extracted with 30mL 1:1 DCM/Acetone by end over end tumble. The solvent is decanted, dehydrated and concentrated (by KD) to the desired volume for analysis.
Digestion for Total Recoverable Metals	EN25	WATER	In house: Referenced to USEPA SW846-3005. Method 3005 is a Nitric/Hydrochloric acid digestion procedure used to prepare surface and ground water samples for analysis by ICPAES or ICPMS. This method is compliant with NEPM (2013) Schedule B(3)
Separatory Funnel Extraction of Liquids	ORG14	WATER	In house: Referenced to USEPA SW 846 - 3510B 100 mL to 1L of sample is transferred to a separatory funnel and serially extracted three times using 60mL DCM for each extract. The resultant extracts are combined, dehydrated and concentrated for analysis. This method is compliant with NEPM (2013) Schedule B(3) . ALS default excludes sediment which may be resident in the container.
Volatiles Water Preparation	ORG16-W	WATER	A 5 mL aliquot or 5 mL of a diluted sample is added to a 40 mL VOC vial for sparging.

ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **ES1711337**	Page	: 1 of 4
Client	: **SMEC TESTING SERVICES PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR EDWIN TRUJILLO	Contact	: Customer Services ES
Address	: P O BOX 6989 WETHERILL PARK NSW, AUSTRALIA 2164	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: ----	Telephone	: +61-2-8784 8555
Project	: 21192/7558C	Date Samples Received	: 11-May-2017 16:30
Order number	: E-2017-132	Date Analysis Commenced	: 12-May-2017
C-O-C number	: 21192 - COC1	Issue Date	: 15-May-2017 16:10
Sampler	: ----		
Site	: ----		
Quote number	: SYBQ/234/16		
No. of samples received	: 1		
No. of samples analysed	: 1		

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Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Celine Conceicao	Senior Spectroscopist	Sydney Inorganics, Smithfield, NSW

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S3	----	----	----	----
			Client sampling date / time	[10-May-2017]	----	----	----	----
Compound	CAS Number	LOR	Unit	ES1711337-001	--------	--------	--------	--------
				Result	----	----	----	----
EN33: TCLP Leach								
Initial pH	----	0.1	pH Unit	**8.5**	----	----	----	----
After HCl pH	----	0.1	pH Unit	**1.9**	----	----	----	----
Extraction Fluid Number	----	1	-	**1**	----	----	----	----
Final pH	----	0.1	pH Unit	**4.9**	----	----	----	----

Analytical Results

Sub-Matrix: **TCLP LEACHATE** (Matrix: **WATER**)			Client sample ID	**S3**	**----**	**----**	**----**	**----**
			Client sampling date / time	[10-May-2017]	----	----	----	----
Compound	CAS Number	LOR	Unit	**ES1711337-001**	**--------**	**--------**	**--------**	**--------**
				Result	----	----	----	----
EG005C: Leachable Metals by ICPAES								
Lead	7439-92-1	0.1	mg/L	<0.1	**----**	**----**	**----**	**----**

ALS Environmental

QUALITY CONTROL REPORT

Work Order	: **ES1711337**	Page	: 1 of 3
Client	: **SMEC TESTING SERVICES PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR EDWIN TRUJILLO	Contact	: Customer Services ES
Address	: P O BOX 6989 WETHERILL PARK NSW, AUSTRALIA 2164	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: ----	Telephone	: +61-2-8784 8555
Project	: 21192/7558C	Date Samples Received	: 11-May-2017
Order number	: E-2017-132	Date Analysis Commenced	: 12-May-2017
C-O-C number	: 21192 - COC1	Issue Date	: 15-May-2017
Sampler	: ----		
Site	: ----		
Quote number	: SYBQ/234/16		
No. of samples received	: 1		
No. of samples analysed	: 1		

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This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

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Signatories	*Position*	*Accreditation Category*
Celine Conceicao	Senior Spectroscopist	Sydney Inorganics, Smithfield, NSW

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Client sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Recovery Limits (%)*
EG005C: Leachable Metals by ICPAES (QC Lot: 886145)									
EB1709426-004	Anonymous	EG005C: Lead	7439-92-1	0.1	mg/L	<0.1	<0.1	0.00	No Limit
ES1711336-001	Anonymous	EG005C: Lead	7439-92-1	0.1	mg/L	0.6	0.6	0.00	No Limit

Method Blank (MB) and Laboratory Control Spike (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Spike (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **SOIL**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Recovery Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EN33: TCLP Leach (QCLot: 884569)								
EN33a: Initial pH	----	0.1	pH Unit	1.0	----	----	----	----
EN33a: After HCl pH	----	0.1	pH Unit	1.0	----	----	----	----
EN33a: Final pH	----	0.1	pH Unit	1.0	----	----	----	----

Sub-Matrix: **WATER**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Recovery Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EG005C: Leachable Metals by ICPAES (QCLot: 886145)								
EG005C: Lead	7439-92-1	0.1	mg/L	<0.1	0.1 mg/L	98.2	80	118

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Recovery Limits (%)	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG005C: Leachable Metals by ICPAES (QCLot: 886145)							
ES1711133-001	Anonymous	EG005C: Lead	7439-92-1	1 mg/L	104	70	130

ALS Environmental

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **ES1711337**	Page	: 1 of 4
Client	: **SMEC TESTING SERVICES PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: MR EDWIN TRUJILLO	Telephone	: +61-2-8784 8555
Project	: 21192/7558C	Date Samples Received	: 11-May-2017
Site	: ----	Issue Date	: 15-May-2017
Sampler	: ----	No. of samples received	: 1
Order number	: E-2017-132	No. of samples analysed	: 1

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **NO Matrix Spike outliers occur.**
- **For all regular sample matrices, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **NO Analysis Holding Time Outliers exist.**

Outliers : Frequency of Quality Control Samples

- **NO Quality Control Sample Frequency Outliers exist.**

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EN33: TCLP Leach							
Non-Volatile Leach: 180 day HT (e.g. metals ex.Hg) (EN33a)							
S3	**10-May-2017**	**12-May-2017**	06-Nov-2017	✓	**----**	----	----

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EG005C: Leachable Metals by ICPAES							
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG005C)							
S3	**12-May-2017**	**13-May-2017**	08-Nov-2017	✓	**15-May-2017**	08-Nov-2017	✓

Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Method Blanks (MB)							
TCLP for Non & Semivolatile Analytes	EN33a	1	10	**10.00**	**9.09**	✓	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Leachable Metals by ICPAES	EG005C	2	11	**18.18**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Leachable Metals by ICPAES	EG005C	1	11	**9.09**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Leachable Metals by ICPAES	EG005C	1	11	**9.09**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Leachable Metals by ICPAES	EG005C	1	11	**9.09**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	*Method*	*Matrix*	*Method Descriptions*
Leachable Metals by ICPAES	EG005C	SOIL	In house: referenced to APHA 3120; USEPA SW 846 - 6010: The ICPAES technique ionises leachate sample atoms emitting a characteristic spectrum. This spectrum is then compared against matrix matched standards for quantification. This method is compliant with NEPM (2013) Schedule B(3)

Preparation Methods	*Method*	*Matrix*	*Method Descriptions*
Digestion for Total Recoverable Metals in TCLP Leachate	EN25C	SOIL	In house: Referenced to USEPA SW846-3005. Method 3005 is a Nitric/Hydrochloric acid digestion procedure used to prepare surface and ground water samples for analysis by ICPAES or ICPMS. This method is compliant with NEPM (2013) Schedule B(3)
TCLP for Non & Semivolatile Analytes	EN33a	SOIL	In house QWI-EN/33 referenced to USEPA SW846-1311: The TCLP procedure is designed to determine the mobility of both organic and inorganic analytes present in wastes. The standard TCLP leach is for non-volatile and Semivolatile test parameters.

ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **EM1705969**	Page	: 1 of 4
Client	: **SMEC TESTING SERVICES PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: MR EDWIN TRUJILLO	Contact	:
Address	: P O BOX 6989 WETHERILL PARK NSW, AUSTRALIA 2164	Address	: 4 Westall Rd Springvale VIC Australia 3171
Telephone	: ----	Telephone	: +61-3-8549 9600
Project	: 21192/7558C	Date Samples Received	: 12-May-2017 09:15
Order number	: E-2017-132	Date Analysis Commenced	: 12-May-2017
C-O-C number	: ----	Issue Date	: 15-May-2017 17:27
Sampler	: ----		
Site	: ----		
Quote number	: SYBQ/234/16		
No. of samples received	: 3		
No. of samples analysed	: 3		

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Signatories	*Position*	*Accreditation Category*
Eric Chau	Metals Team Leader	Melbourne Inorganics, Springvale, VIC

General Comments

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Where moisture determination has been performed, results are reported on a dry weight basis.

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Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- This is a rebatch of ES1706075.

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Client sample ID	S1	S6	S8	----	----
			Client sampling date / time	10-May-2017 00:00	10-May-2017 00:00	10-May-2017 00:00	----	----
Compound	CAS Number	LOR	Unit	EM1705969-001	EM1705969-002	EM1705969-003	--------	--------
				Result	Result	Result	----	----
EN33: TCLP Leach								
Initial pH	----	0.1	pH Unit	**6.4**	**8.7**	**9.4**	**----**	**----**
After HCl pH	----	0.1	pH Unit	**1.4**	**1.4**	**1.7**	**----**	**----**
Extraction Fluid Number	----	1	-	**1**	**1**	**1**	**----**	**----**
Final pH	----	0.1	pH Unit	**4.9**	**5.0**	**6.1**	**----**	**----**

Analytical Results

Sub-Matrix: **TCLP LEACHATE** (Matrix: **WATER**)			Client sample ID	**S1**	**S6**	**S8**	**----**	**----**
			Client sampling date / time	10-May-2017 00:00	10-May-2017 00:00	10-May-2017 00:00	----	----
Compound	CAS Number	LOR	Unit	**EM1705969-001**	**EM1705969-002**	**EM1705969-003**	**--------**	**--------**
				Result	Result	Result	----	----
EG005C: Leachable Metals by ICPAES								
Lead	7439-92-1	0.1	mg/L	**0.2**	**0.1**	<0.1	**----**	**----**

ALS Environmental

QUALITY CONTROL REPORT

Work Order	: **EM1705969**	Page	: 1 of 3
Client	: **SMEC TESTING SERVICES PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: MR EDWIN TRUJILLO	Contact	:
Address	: P O BOX 6989 WETHERILL PARK NSW, AUSTRALIA 2164	Address	: 4 Westall Rd Springvale VIC Australia 3171
Telephone	: ----	Telephone	: +61-3-8549 9600
Project	: 21192/7558C	Date Samples Received	: 12-May-2017
Order number	: E-2017-132	Date Analysis Commenced	: 12-May-2017
C-O-C number	: ----	Issue Date	: 15-May-2017
Sampler	: ----		
Site	: ----		
Quote number	: SYBQ/234/16		
No. of samples received	: 3		
No. of samples analysed	: 3		

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This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

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Signatories	*Position*	*Accreditation Category*
Eric Chau	Metals Team Leader	Melbourne Inorganics, Springvale, VIC

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Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC

Laboratory Duplicate (DUP) Report

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Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Client sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Recovery Limits (%)*
EG005C: Leachable Metals by ICPAES (QC Lot: 887928)									
EM1705956-001	Anonymous	EG005C: Lead	7439-92-1	0.1	mg/L	<0.1	<0.1	0.00	No Limit
EM1705956-010	Anonymous	EG005C: Lead	7439-92-1	0.1	mg/L	<0.1	<0.1	0.00	No Limit

Method Blank (MB) and Laboratory Control Spike (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Spike (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **WATER**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Recovery Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EG005C: Leachable Metals by ICPAES (QCLot: 887928)								
EG005C: Lead	7439-92-1	0.1	mg/L	<0.1	1 mg/L	112	86	116

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Recovery Limits (%)	
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EG005C: Leachable Metals by ICPAES (QCLot: 887928)							
EM1705956-002	Anonymous	EG005C: Lead	7439-92-1	1 mg/L	114	86	118

ALS Environmental

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **EM1705969**	Page	: 1 of 4
Client	: **SMEC TESTING SERVICES PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: MR EDWIN TRUJILLO	Telephone	: +61-3-8549 9600
Project	: 21192/7558C	Date Samples Received	: 12-May-2017
Site	: ----	Issue Date	: 15-May-2017
Sampler	: ----	No. of samples received	: 3
Order number	: E-2017-132	No. of samples analysed	: 3

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **NO Matrix Spike outliers occur.**
- **For all regular sample matrices, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **NO Analysis Holding Time Outliers exist.**

Outliers : Frequency of Quality Control Samples

- **NO Quality Control Sample Frequency Outliers exist.**

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EN33: TCLP Leach							
Non-Volatile Leach: 180 day HT (e.g. metals ex.Hg) (EN33a)							
S1, S6, S8	**10-May-2017**	**12-May-2017**	06-Nov-2017	✓	**----**	----	----

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EG005C: Leachable Metals by ICPAES							
Clear Plastic Bottle - Nitric Acid; Unfiltered (EG005C)							
S1, S6, S8	**12-May-2017**	**15-May-2017**	08-Nov-2017	✓	**15-May-2017**	08-Nov-2017	✓

Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **WATER**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Leachable Metals by ICPAES	EG005C	2	11	**18.18**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Leachable Metals by ICPAES	EG005C	1	11	**9.09**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Leachable Metals by ICPAES	EG005C	1	11	**9.09**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Leachable Metals by ICPAES	EG005C	1	11	**9.09**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	*Method*	*Matrix*	*Method Descriptions*
Leachable Metals by ICPAES	EG005C	SOIL	In house: referenced to APHA 3120; USEPA SW 846 - 6010: The ICPAES technique ionises leachate sample atoms emitting a characteristic spectrum. This spectrum is then compared against matrix matched standards for quantification. This method is compliant with NEPM (2013) Schedule B(3)

Preparation Methods	*Method*	*Matrix*	*Method Descriptions*
Digestion for Total Recoverable Metals in TCLP Leachate	EN25C	SOIL	In house: Referenced to USEPA SW846-3005. Method 3005 is a Nitric/Hydrochloric acid digestion procedure used to prepare surface and ground water samples for analysis by ICPAES or ICPMS. This method is compliant with NEPM (2013) Schedule B(3)
TCLP for Non & Semivolatile Analytes	EN33a	SOIL	In house QWI-EN/33 referenced to USEPA SW846-1311: The TCLP procedure is designed to determine the mobility of both organic and inorganic analytes present in wastes. The standard TCLP leach is for non-volatile and Semivolatile test parameters.