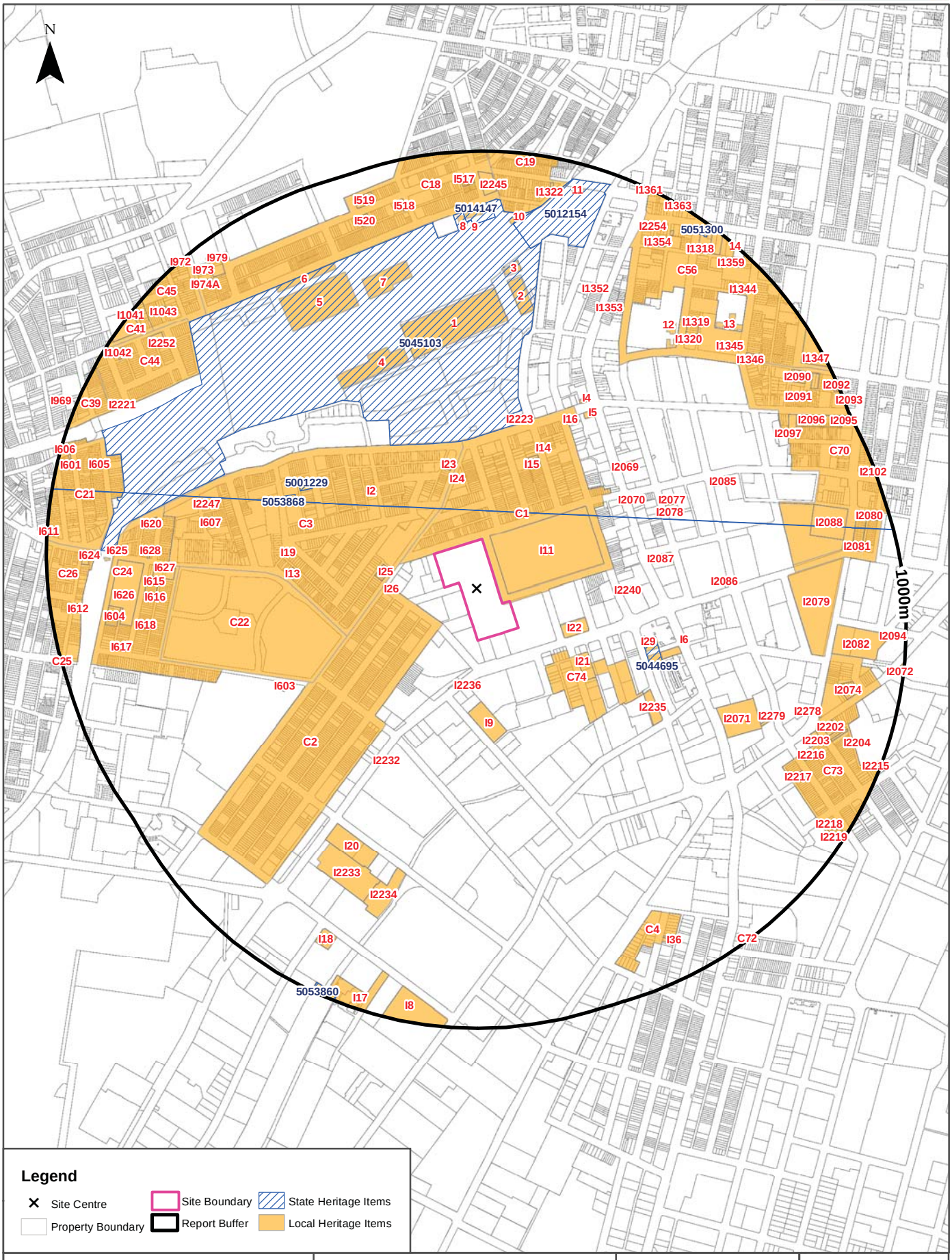
Heritage Items

Alexandria Park Community School, Park Road, Alexandria, NSW 2015



Scale:
0 100 200 400
Meters

Data Sources: Property Boundaries & Topographic Data: © Land and Property Information (a division of the Department of Finance and Services) 2017
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Coordinate System:
GDA 1994 MGA Zone 56

Date: 25January 2017

Heritage

Alexandria Park Community School, Park Road, Alexandria, NSW 2015

State Heritage Items

What are the State Heritage Items located within the report buffer?

Map Id	Name	Address	LGA	Listing Date	Listing No	Plan No	Distance	Direction
5053868	Pressure Tunnel and Shafts		Bankstown		01630	2046	72m	West
5045103	Eveleigh Railway Workshops		Sydney		01140	2347	258m	North West
5044695	Yiu Ming Temple	16-22 Retreat Street Alexandria	Sydney		01297	2239	321m	East
5001229	Enginemans Resthouse	39 Brandling Street Alexandria	Sydney		00723	1777	357m	North West
5012154	Redfern Railway Station group		Sydney		01234	2340	759m	North
5014147	Eveleigh Chief Mechanical Engineers Office		Sydney		01139	2341	810m	North
5051300	Redfern Post Office	113 Redfern Street Redfern	Sydney		01439	2140	965m	North East
5053860	Alexandra Canal		Botany Bay		01621	2038	974m	South West

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Local Heritage Items

What are the Local Heritage Items located within the report buffer?

Map Id	Name	Classification	Significance	LEP or Act	Published Date	Commenced Date	Currency Date	Distance	Direction
C1	Alexandria Park	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	0m	Onsite
I11	Alexandria Park	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	18m	North East
C3	Kingsclear	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	58m	North West
C2	Cooper Estate	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	73m	South West
I22	Industrial building	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	108m	East
C74	North Alexandria Industrial	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	22/01/2016	22/01/2016	06/05/2016	109m	South East
I2236	Electricity Substation No. 152	Item - General	Local	Sydney Local Environmental Plan 2012	22/01/2016	22/01/2016	06/05/2016	112m	South
I25	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	120m	West
I26	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	139m	West
I9	Industrial building 'Eclipse House'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	156m	South

Map Id	Name	Classification	Significance	LEP or Act	Published Date	Commenced Date	Currency Date	Distance	Direction
I21	Warehouse	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	165m	South East
I24	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	192m	North
I23	Former NSW Mission Church & Hall	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	197m	North
I15	Alexandria Town Hall	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	219m	North East
I2	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	221m	North West
I14	Former Mayor's Residence	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	234m	North East
I2240	Former Electric Light Substation No. 89	Item - General	Local	Sydney Local Environmental Plan 2012	22/01/2016	22/01/2016	06/05/2016	280m	East
C22	Erskineville Estate	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	281m	West
I2223	Alexandria Hotel	Item - General	Local	Sydney Local Environmental Plan 2012	01/04/2016	01/04/2016	06/05/2016	310m	North
I29	Terrace group (17A-29 Retreat Street)	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	321m	East
I28	Yiu Ming Temple (16-22 Retreat Street)	Item - General	State	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	341m	East
I13	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	353m	West
I10	House 'Eveleigh House'	Item - General	State	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	357m	North West
I2235	Former Standard Telephones and Cables	Item - General	Local	Sydney Local Environmental Plan 2012	22/01/2016	22/01/2016	06/05/2016	364m	South East
I19	Cottage	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	367m	West
I6	Glenroy Hotel	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	370m	East
I16	Lord Raglan Hotel	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	371m	North East
I2087	Terrace group 'Gordon Terrace'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	373m	East
I2232	Electricity Substation No. 117	Item - General	Local	Sydney Local Environmental Plan 2012	22/01/2016	22/01/2016	06/05/2016	383m	South West
I2070	Cauliflower Hotel	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	395m	North East
I2069	Congregational Church	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	400m	North East
I5	Former CBC Bank	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	408m	North East
I4	Cricketers Arms Hotel	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	431m	North East
I2078	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	465m	East
I2077	Former Waterloo Pre-school (225 Cope Street)	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	470m	North East
I603	Electrical substation	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	476m	South West

Map Id	Name	Classification	Significance	LEP or Act	Published Date	Commenced Date	Currency Date	Distance	Direction
4	Large Erecting Shop	Item - General	State	State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	486m	North West
1	Locomotive Workshop	Item - General	State	State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	495m	North
I2086	Electrical substation	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	540m	East
I2071	Waterloo Public School group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	549m	South East
I607	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	564m	West
C56	Redfern Estate	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	570m	North East
2	New Locomotive Workshop	Item - General	State	State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	586m	North
I2247	Former Chimney Stack Factory	Item - General	Local	Sydney Local Environmental Plan 2012	22/01/2016	22/01/2016	06/05/2016	593m	West
I20	Industrial building 'Frank G Spurway'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	594m	South West
I2085	Duke of Wellington Hotel	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	603m	North East
C24	Malcolm Estate	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	609m	West
I2234	Eastern part of former Alexandria Spinning Mills	Item - General	Local	Sydney Local Environmental Plan 2012	22/01/2016	22/01/2016	06/05/2016	622m	South
I2233	Western part of former Alexandria Spinning Mills	Item - General	Local	Sydney Local Environmental Plan 2012	22/01/2016	22/01/2016	06/05/2016	646m	South West
I627	St Mary's Church group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	667m	West
5	Carriage Workshops	Item - General	State	State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	668m	North West
I2279	Electricity Substation No.75	Item - General	Local	Sydney Local Environmental Plan 2012	22/01/2016	22/01/2016	06/05/2016	670m	South East
7	Paint Shop	Item - General	State	State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	677m	North
I1353	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	678m	North East
12	Two Buildings on George and Phillip Streets	Item - General	State	State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	681m	North East
3	Works Manager's Office	Item - General	State	State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	684m	North
I1352	St Luke's Presbyterian Church	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	701m	North
I2079	Waterloo Park & Oval	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	705m	East
I615	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	713m	West

Map Id	Name	Classification	Significance	LEP or Act	Published Date	Commenced Date	Currency Date	Distance	Direction
12	Two Buildings on George and Phillip Streets	Item - General	State	State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	714m	North East
I616	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	716m	West
I620	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	721m	West
C70	Waterloo	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	725m	East
I2079	Waterloo Park & Oval	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	725m	East
I628	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	730m	West
I1320	House 'Clyde House'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	732m	North East
I1319	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	739m	North East
I626	Erskineville Public School	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	748m	West
I618	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	755m	West
I2278	Part former William Brooks factory including interiors	Item - General	Local	Sydney Local Environmental Plan 2012	22/01/2016	22/01/2016	06/05/2016	755m	East
C44	Pines Estate	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	764m	North West
C73	Zetland Estate	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	768m	South East
6	Blacksmith's Shop	Item - General	State	State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	777m	North West
I2088	Our Lady of Mt Carmel Church & School	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	787m	East
I2203	Green Square Hotel	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	793m	South East
C18	Golden Grove	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	793m	North
I2216	Terrace group 'Elsie Terrace'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	801m	South East
I2217	Terrace group 'Ada Terrace'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	803m	South East
8	Scientific Services Building No.1	Item - General	State	State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	804m	North
C4	Hillview Estate	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	805m	South East
I2083	Former Zetland Tram Terminus (874 Elizabeth Street)	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	806m	East
I2082	Former commercial building group 'Chubb Pty Ltd'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	809m	East
13	Five Storey Building and Part of Two Storey Colonnade Building	Item - General	State	State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	812m	North East

Map Id	Name	Classification	Significance	LEP or Act	Published Date	Commenced Date	Currency Date	Distance	Direction
10	Telecommunications Equipment Centre	Item - General	State	State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	812m	North
C21	Burren Estate	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	815m	West
I604	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	819m	West
I2202	Former fire station	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	821m	East
I1346	Somerset Hotel	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	823m	North East
I617	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	824m	West
9	Chief Mechanical Engineer's Office Building	Item - General	State	State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	825m	North
I1345	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	829m	North East
I2074	Terrace group 'Chase Terrace'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	834m	East
I625	Erskineville Railway Station	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	834m	West
I2097	Uniting Church	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	834m	North East
I18	Water Board pump house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	840m	South West
C19	Darlington	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	845m	North
C45	Queen Street	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	851m	North West
I2204	Terrace house 'Alencon'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	854m	East
I520	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	858m	North
I2096	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	859m	North East
I518	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	870m	North
C26	Toogood & White's Estate	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	873m	West
I1354	Former Redfern Municipal Electric Light Station	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	876m	North East
I36	Cottage	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	876m	South East
I2081	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	881m	East
I2252	Former F. W. Gissing Factory	Item - General	Local	Sydney Local Environmental Plan 2012	22/01/2016	22/01/2016	06/05/2016	882m	North West
I605	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	885m	West
I2245	Former McMurtrie, Kellermann & Co Factory	Item - General	Local	Sydney Local Environmental Plan 2012	22/01/2016	22/01/2016	06/05/2016	886m	North

Map Id	Name	Classification	Significance	LEP or Act	Published Date	Commenced Date	Currency Date	Distance	Direction
I17	Former 'Shea's Creek Woolsheds Nos 73, 74 & 75'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	886m	South
I624	Rose of Australia Hotel	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	887m	West
I2221	Three Proud People mural on the Leamington Lane elevation	Item - General	Local	Sydney Local Environmental Plan 2012	12/12/2014	12/12/2014	06/05/2016	889m	North West
I2090	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	891m	North East
I979	St Michael's Church group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	902m	North West
I974A	Terrace house (50 Forbes Street)	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	905m	North West
I974	Terrace house (48 Forbes Street)	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	909m	North West
I519	Commercial building	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	909m	North
I1322	Terrace house 'Waratah'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	909m	North
C39	Bucknell Street	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	909m	North West
I517	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	910m	North
I8	Former industrial building group 'James Barnes'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	911m	South
I2080	Waterloo Town Hall	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	916m	East
I612	House	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	917m	West
I2254	Electricity Substation No. 112	Item - General	Local	Sydney Local Environmental Plan 2012	22/01/2016	22/01/2016	06/05/2016	919m	North East
I1344	Former shop & residence	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	920m	North East
C41	Hollis Park	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	924m	North West
I1318	Redfern Telephone Exchange	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	925m	North East
11	Redfern Station Booking Office	Item - General	State	State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	928m	North
I1043	House 'Willow Lodge'	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	929m	North West
I2091	House	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	931m	North East
I973	St Kieran's Presbytery	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	932m	North West
I1347	Redfern Park	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	938m	North East
I1348	Former St Vincent's Roman Catholic Church group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	939m	North East
I1359	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	941m	North East

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I1042	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	941m	North West
I2218	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	941m	South East
I1041	Hollis Park	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	949m	North West
I2094	Electrical substation	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	953m	East
I2095	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	958m	North East
I2219	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	958m	South East
I601	Former corner shop & residence	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	961m	West
I1349	Redfern Post Office	Item - General	State	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	965m	North East
I3	Alexandra Canal	Item - General	State	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	975m	South West
I2072	Federation Warehouse with Art Deco Additions	Item - General	Local	Sydney Local Environmental Plan 2012	10/04/2015	10/04/2015	06/05/2016	976m	East
I606	Former Cosmopolitan Hotel	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	977m	West
I2092	Terrace house	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	982m	North East
I2215	Semi-detached cottage group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	983m	South East
C72	Hansard Street	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	984m	South East
I2102	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	986m	East
I611	Erskineville Town Hall	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	988m	West
I2093	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	989m	North East
C25	Pleasant Avenue	Conservation Area - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	994m	West
I972	Former Convent of Mercy	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	995m	North West
I1363	Terrace group	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	996m	North East
14	Former Court House Building	Item - General	State	State Environmental Planning Policy (State Significant Precincts) 2005	24/03/2016	24/03/2016	24/03/2016	997m	North East
I1361	Wood Block paving beneath bitumen surface	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	998m	North East
I969	Cottage	Item - General	Local	Sydney Local Environmental Plan 2012	14/12/2012	14/12/2012	06/05/2016	998m	North West

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Natural Hazards

Alexandria Park Community School, Park Road, Alexandria, NSW 2015

Bushfire Prone Land

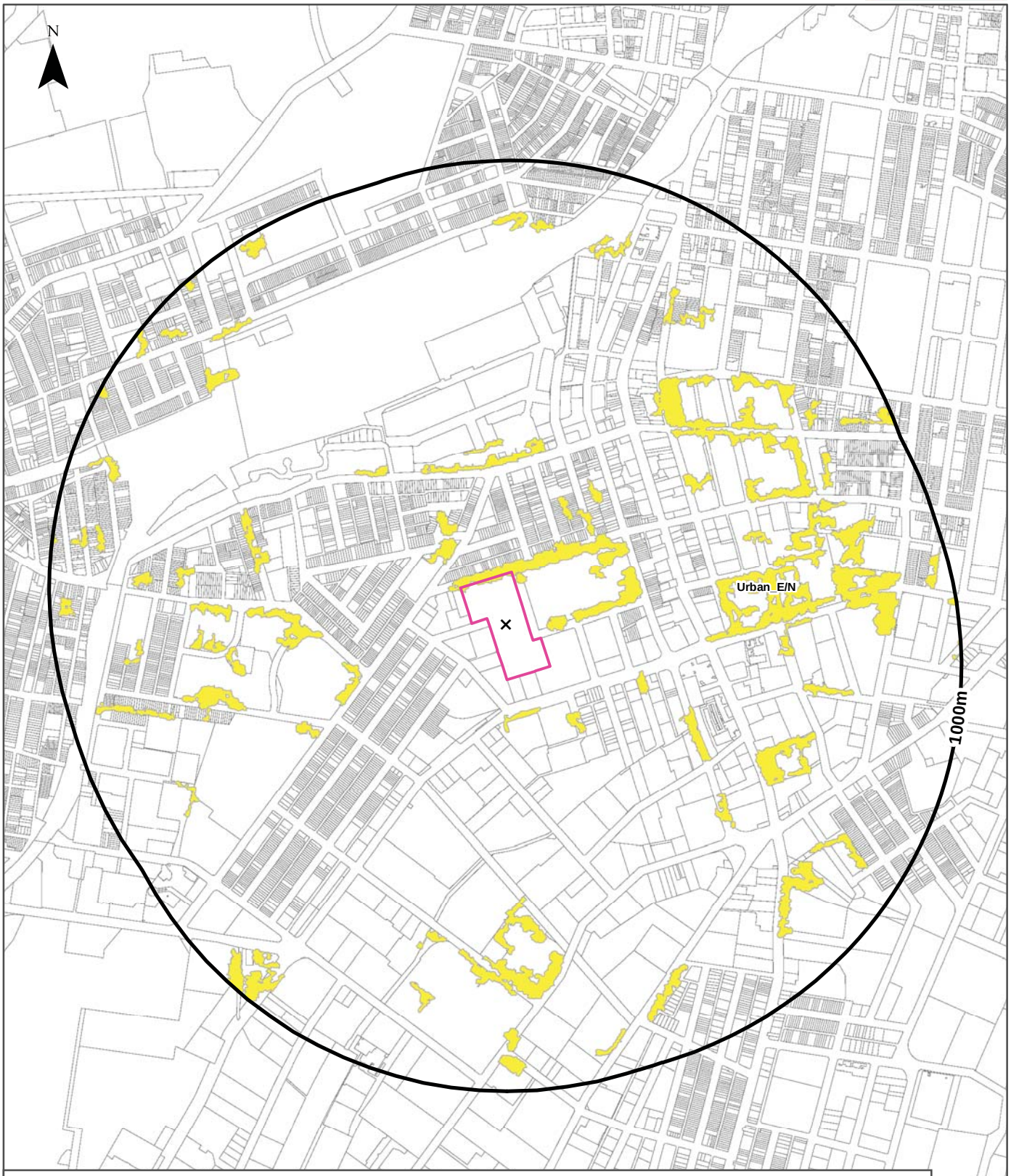
What are the nearest Bushfire Prone Land Categories that exist within the report buffer?

Bushfire Prone Land Category	Distance	Direction
No records within buffer		

Bushfire Prone Land Data Reference - NSW RFS GIS Data Set

Ecological Constraints - Native Vegetation & RAMSAR Wetlands

Alexandria Park Community School, Park Road, Alexandria, NSW 2015



Legend

- Site Centre
- Site Boundary
- Report Buffer
- Property Boundary
- Rainforest
- Wet Sclerophyll Forests
- Dry Sclerophyll Forests
- Forested Wetlands
- Grassy Woodlands
- Heathlands
- Grasslands
- Freshwater Wetlands
- Saline Wetlands
- Artificial Wetlands
- Water
- Other
- RAMSAR Wetlands

Scale: 0 100 200 400 Meters

Data Sources: Property Boundaries & Topographic Data: © Land and Property Information (a division of the Department of Finance and Services) 2017

Coordinate System: GDA 1994 MGA Zone 56

Date: 25January 2017

Ecological Constraints

Alexandria Park Community School, Park Road, Alexandria, NSW 2015

Native Vegetation

What native vegetation exists within the report buffer?

Map ID	Map Unit Name	Threatened Ecological Community NSW	Threatened Ecological Community EPBC Act	Understorey	Disturbance	Disturbance Index	Dominant Species	Dist	Direction
Urban_E/N	Urban_E/N: Urban Exotic/Native			00: Not assessed	00: Not assessed	0: Not assessed	Urban Exotic/ Native	0m	Onsite

Native Vegetation of the Sydney Metropolitan Area : NSW Office of Environment and Heritage
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RAMSAR Wetlands

What RAMSAR Wetland areas exist within the report buffer?

Map Id	RAMSAR Name	Wetland Name	Designation Date	Source	Distance	Direction
N/A	No records in buffer					

RAMSAR Wetlands Data Source: © Commonwealth of Australia - Department of Environment

Ecological Constraints

Alexandria Park Community School, Park Road, Alexandria, NSW 2015

ATLAS of NSW Wildlife

Endangered &Vulnerable Species on the ATLAS of NSW Wildlife database, within 10km of the site?

Class	Family	Scientific	Common	Exotic	NSW Status	Commonwealth Status
Amphibia	Hylidae	Litoria aurea	Green and Golden Bell Frog	No	Endangered, Protected	Vulnerable
Amphibia	Myobatrachidae	Crinia tinnula	Wallum Froglet	No	Vulnerable, Protected	
Amphibia	Myobatrachidae	Pseudophryne australis	Red-crowned Toadlet	No	Vulnerable, Protected	
Aves	Accipitridae	Haliaeetus leucogaster	White-bellied Sea-Eagle	No	Vulnerable, Protected	CAMBA
Aves	Accipitridae	Hieraaetus morphnoides	Little Eagle	No	Vulnerable, Protected	
Aves	Anatidae	Stictonetta naevosa	Freckled Duck	No	Vulnerable, Protected	
Aves	Anseranatidae	Anseranas semipalmata	Magpie Goose	No	Vulnerable, Protected	
Aves	Ardeidae	Botaurus poiciloptilus	Australasian Bittern	No	Endangered, Protected	Endangered
Aves	Ardeidae	Ixobrychus flavicollis	Black Bittern	No	Vulnerable, Protected	
Aves	Artamidae	Artamus cyanopterus cyanopterus	Dusky Woodswallow	No	Vulnerable, Protected	
Aves	Burhinidae	Burhinus grallarius	Bush Stone-curlew	No	Endangered, Protected	
Aves	Cacatuidae	Calyptorhynchus lathami	Glossy Black-Cockatoo	No	Vulnerable, Protected, Category 2 Sensitive Species	
Aves	Charadriidae	Charadrius leschenaultii	Greater Sand-plover	No	Vulnerable, Protected	V,C,J,K
Aves	Charadriidae	Charadrius mongolus	Lesser Sand-plover	No	Vulnerable, Protected	E,C,J,K
Aves	Columbidae	Ptilinopus superbus	Superb Fruit-Dove	No	Vulnerable, Protected	
Aves	Diomedeidae	Diomedea exulans	Wandering Albatross	No	Endangered, Protected	E,J
Aves	Diomedeidae	Diomedea gibsoni	Gibson's Albatross	No	Vulnerable, Protected	Vulnerable
Aves	Diomedeidae	Thalassarche melanophris	Black-browed Albatross	No	Vulnerable, Protected	Vulnerable
Aves	Estrildidae	Stagonopleura guttata	Diamond Firetail	No	Vulnerable, Protected	
Aves	Haematopodidae	Haematopus fuliginosus	Sooty Oystercatcher	No	Vulnerable, Protected	
Aves	Haematopodidae	Haematopus longirostris	Pied Oystercatcher	No	Endangered, Protected	
Aves	Laridae	Onychoprion fuscata	Sooty Tern	No	Vulnerable, Protected	
Aves	Laridae	Sternula albifrons	Little Tern	No	Endangered, Protected	CAMBA, JAMBA, ROKAMBA
Aves	Meliphagidae	Anthochaera phrygia	Regent Honeyeater	No	Critically Endangered Species, Protected	Critically Endangered
Aves	Meliphagidae	Epthianura albifrons	White-fronted Chat	No	Vulnerable, Protected	
Aves	Meliphagidae	Epthianura albifrons	White-fronted Chat population in the Sydney Metropolitan Catchment Management Area	No	Endangered Population, Vulnerable, Protected	
Aves	Neosittidae	Daphoenositta chrysoptera	Varied Sittella	No	Vulnerable, Protected	
Aves	Petroicidae	Petroica boodang	Scarlet Robin	No	Vulnerable, Protected	
Aves	Petroicidae	Petroica phoenicea	Flame Robin	No	Vulnerable, Protected	
Aves	Procellariidae	Ardenna carneipes	Flesh-footed Shearwater	No	Vulnerable, Protected	J,K
Aves	Procellariidae	Macronectes giganteus	Southern Giant Petrel	No	Endangered, Protected	Endangered
Aves	Procellariidae	Macronectes halli	Northern Giant-Petrel	No	Vulnerable, Protected	Vulnerable

Class	Family	Scientific	Common	Exotic	NSW Status	Commonwealth Status
Aves	Procellariidae	Pterodroma leucoptera leucoptera	Gould's Petrel	No	Vulnerable, Protected	Endangered
Aves	Psittacidae	Glossopsitta pusilla	Little Lorikeet	No	Vulnerable, Protected	
Aves	Psittacidae	Lathamus discolor	Swift Parrot	No	Endangered, Protected, Category 3 Sensitive Species	Critically Endangered
Aves	Psittacidae	Neophema pulchella	Turquoise Parrot	No	Vulnerable, Protected, Category 3 Sensitive Species	
Aves	Psittacidae	Pezoporus wallicus wallicus	Eastern Ground Parrot	No	Vulnerable, Protected, Category 3 Sensitive Species	
Aves	Scolopacidae	Calidris alba	Sanderling	No	Vulnerable, Protected	CAMBA, JAMBA, ROKAMBA
Aves	Scolopacidae	Calidris ferruginea	Curlew Sandpiper	No	Endangered, Protected	CE,C,J,K
Aves	Scolopacidae	Calidris tenuirostris	Great Knot	No	Vulnerable, Protected	CE,C,J,K
Aves	Scolopacidae	Limicola falcinellus	Broad-billed Sandpiper	No	Vulnerable, Protected	CAMBA, JAMBA, ROKAMBA
Aves	Scolopacidae	Limosa limosa	Black-tailed Godwit	No	Vulnerable, Protected	CAMBA, JAMBA, ROKAMBA
Aves	Scolopacidae	Xenus cinereus	Terek Sandpiper	No	Vulnerable, Protected	CAMBA, JAMBA, ROKAMBA
Aves	Strigidae	Ninox connivens	Barking Owl	No	Vulnerable, Protected, Category 3 Sensitive Species	
Aves	Strigidae	Ninox strenua	Powerful Owl	No	Vulnerable, Protected, Category 3 Sensitive Species	
Aves	Tytonidae	Tyto novaehollandiae	Masked Owl	No	Vulnerable, Protected, Category 3 Sensitive Species	
Aves	Tytonidae	Tyto tenebricosa	Sooty Owl	No	Vulnerable, Protected, Category 3 Sensitive Species	
Mammalia	Balaenidae	Eubalaena australis	Southern Right Whale	No	Endangered, Protected	Endangered
Mammalia	Balaenopteridae	Megaptera novaeangliae	Humpback Whale	No	Vulnerable, Protected	Vulnerable
Mammalia	Burramyidae	Cercartetus nanus	Eastern Pygmy-possum	No	Vulnerable, Protected	
Mammalia	Dasyuridae	Dasyurus maculatus	Spotted-tailed Quoll	No	Vulnerable, Protected	Endangered
Mammalia	Dasyuridae	Dasyurus viverrinus	Eastern Quoll	No	Endangered, Protected	Critically Endangered
Mammalia	Dugongidae	Dugong dugon	Dugong	No	Endangered, Protected	
Mammalia	Molossidae	Mormopterus norfolkensis	Eastern Freetail-bat	No	Vulnerable, Protected	
Mammalia	Otariidae	Arctocephalus forsteri	New Zealand Fur-seal	No	Vulnerable, Protected	
Mammalia	Otariidae	Arctocephalus pusillus doriferus	Australian Fur-seal	No	Vulnerable, Protected	
Mammalia	Peramelidae	Perameles nasuta	Long-nosed Bandicoot population in inner western Sydney	No	Endangered Population, Protected	
Mammalia	Potoroidae	Aepyprymnus rufescens	Rufous Bettong	No	Vulnerable, Protected	
Mammalia	Pteropodidae	Pteropus poliocephalus	Grey-headed Flying-fox	No	Vulnerable, Protected	Vulnerable
Mammalia	Vespertilionidae	Miniopterus australis	Little Bentwing-bat	No	Vulnerable, Protected	
Mammalia	Vespertilionidae	Miniopterus schreibersii oceanensis	Eastern Bentwing-bat	No	Vulnerable, Protected	
Mammalia	Vespertilionidae	Myotis macropus	Southern Myotis	No	Vulnerable, Protected	
Reptilia	Cheloniidae	Chelonia mydas	Green Turtle	No	Vulnerable, Protected	Vulnerable
Reptilia	Dermochelyidae	Dermochelys coriacea	Leatherback Turtle	No	Endangered, Protected	Endangered
Flora	Asteraceae	Senecio spathulatus	Coast Groundsel	No	Endangered, Protected	
Flora	Casuarinaceae	Allocasuarina portuensis	Nielsen Park She-oak	No	Endangered, Protected, Category 3 Sensitive Species	Endangered

Class	Family	Scientific	Common	Exotic	NSW Status	Commonwealth Status
Flora	Convolvulaceae	Wilsonia backhousei	Narrow-leafed Wilsonia	No	Vulnerable, Protected	
Flora	Dilleniaceae	Hibbertia puberula		No	Endangered, Protected	
Flora	Elaeocarpaceae	Tetratheca glandulosa		No	Vulnerable, Protected	
Flora	Elaeocarpaceae	Tetratheca juncea	Black-eyed Susan	No	Vulnerable, Protected	Vulnerable
Flora	Ericaceae	Epacris purpurascens var. purpurascens		No	Vulnerable, Protected	
Flora	Fabaceae (Faboideae)	Pultenaea parviflora		No	Endangered, Protected	Vulnerable
Flora	Fabaceae (Mimosoideae)	Acacia bynoeana	Bynoe's Wattle	No	Endangered, Protected	Vulnerable
Flora	Fabaceae (Mimosoideae)	Acacia gordonii		No	Endangered, Protected	Endangered
Flora	Fabaceae (Mimosoideae)	Acacia pubescens	Downy Wattle	No	Vulnerable, Protected	Vulnerable
Flora	Fabaceae (Mimosoideae)	Acacia terminalis subsp. terminalis	Sunshine Wattle	No	Endangered, Protected	Endangered
Flora	Grammitidaceae	Grammitis stenophylla	Narrow-leaf Finger Fern	No	Endangered, Protected, Category 3 Sensitive Species	
Flora	Myrtaceae	Callistemon linearifolius	Netted Bottle Brush	No	Vulnerable, Protected, Category 3 Sensitive Species	
Flora	Myrtaceae	Darwinia biflora		No	Vulnerable, Protected	Vulnerable
Flora	Myrtaceae	Eucalyptus camfieldii	Camfield's Stringybark	No	Vulnerable, Protected	Vulnerable
Flora	Myrtaceae	Eucalyptus fracta	Broken Back Ironbark	No	Vulnerable, Protected	
Flora	Myrtaceae	Eucalyptus nicholii	Narrow-leaved Black Peppermint	No	Vulnerable, Protected	Vulnerable
Flora	Myrtaceae	Eucalyptus pulverulenta	Silver-leafed Gum	No	Vulnerable, Protected	Vulnerable
Flora	Myrtaceae	Eucalyptus scoparia	Wallangarra White Gum	No	Endangered, Protected	Vulnerable
Flora	Myrtaceae	Leptospermum deanei		No	Vulnerable, Protected	Vulnerable
Flora	Myrtaceae	Melaleuca biconvexa	Biconvex Paperbark	No	Vulnerable, Protected	Vulnerable
Flora	Myrtaceae	Melaleuca deanei	Deane's Paperbark	No	Vulnerable, Protected	Vulnerable
Flora	Myrtaceae	Syzygium paniculatum	Magenta Lilly Pilly	No	Endangered, Protected	Vulnerable
Flora	Myrtaceae	Triplarina imbricata	Creek Triplarina	No	Endangered, Protected	Endangered
Flora	Orchidaceae	Caladenia tessellata	Thick Lip Spider Orchid	No	Endangered, Protected, Category 2 Sensitive Species	Vulnerable
Flora	Orchidaceae	Diuris arenaria	Sand Doubletail	No	Endangered, Protected, Category 2 Sensitive Species	
Flora	Orchidaceae	Genoplesium baueri	Bauer's Midge Orchid	No	Endangered, Protected, Category 2 Sensitive Species	Endangered
Flora	Poaceae	Dichanthium setosum	Bluegrass	No	Vulnerable, Protected	Vulnerable
Flora	Proteaceae	Persoonia hirsuta	Hairy Geebung	No	Endangered, Protected, Category 3 Sensitive Species	Endangered
Flora	Proteaceae	Persoonia nutans	Nodding Geebung	No	Endangered, Protected	Endangered
Flora	Rutaceae	Asterolasia buxifolia		No	Endangered, Protected	
Flora	Santalaceae	Thesium australe	Austral Toadflax	No	Vulnerable, Protected	Vulnerable
Flora	Thymelaeaceae	Pimelea curviflora var. curviflora		No	Vulnerable, Protected	Vulnerable
Flora	Thymelaeaceae	Pimelea spicata	Spiked Rice-flower	No	Endangered, Protected	Endangered
Flora	Hygrophoraceae	Camarophyllopsis kearneyi		No	Endangered, Protected	
Flora	Hygrophoraceae	Hygrocybe anomala var. ianthinomarginata		No	Vulnerable, Protected	
Flora	Hygrophoraceae	Hygrocybe aurantipes		No	Vulnerable, Protected	

Class	Family	Scientific	Common	Exotic	NSW Status	Commonwealth Status
Flora	Hygrophoraceae	Hygrocybe austropratensis		No	Endangered, Protected	
Flora	Hygrophoraceae	Hygrocybe collucera		No	Endangered, Protected	
Flora	Hygrophoraceae	Hygrocybe griseoramosa		No	Endangered, Protected	
Flora	Hygrophoraceae	Hygrocybe lanecovensis		No	Endangered, Protected	
Flora	Hygrophoraceae	Hygrocybe reesiae		No	Vulnerable, Protected	
Flora	Hygrophoraceae	Hygrocybe rubronivea		No	Vulnerable, Protected	

Data does not include records not defined as either endangered or vulnerable, and category 1 sensitive species are also excluded. NSW Office of Environment and Heritage's Atlas of NSW Wildlife, which holds data from a number of custodians. Data obtained 25/01/2017

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Appendix C – Field Logs

coffey

Engineering Log - Borehole

Borehole No.	**HA01**
Sheet	1 of 1
Office Job No.:	**SYDEN199382**
Client:	**TKD Architects Pty Ltd**
Date started:	**24.1.2017**
Principal:	
Date completed:	**24.1.2017**
Project:	**Alexandria Park Community School**
Logged by:	**JR**
Borehole Location:	
Checked by:	**AR**

drill model and mounting: | Easting: | slope: -90° | R.L. Surface:

hole diameter: 50 mm | Northing | bearing: | datum: AHD

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material (soil type: plasticity or particle characteristics, colour, secondary and minor components.)	moisture condition	consistency/ density index	pocket penetro-meter kPa 100 200 300 400	structure and additional observations
HA				E+1.1ppm / DUP04					**FILL (Sandy CLAY):** High Plasticity, light brown, with some roots.	D			No observed staining, odours or ACM.
						0.5			Refusal. Borehole HA01 terminated at 0.25m				

method
- DT diatube
- PT push tube
- SS soild stem flight auger
- HS hollow stem flight auger
- VT V Bit, T Bit
- AH air hammer
- CP cable percussive
- HA hand auger
- NDD non-destructive digging
- RC rock corer

support
- M mud
- C casing
- N nil

penetration 1 2 3 4
- no resistance
- ranging to refusal

water
- 10/1/98 water level on date shown
- water inflow
- water outflow

notes, samples, tests
- U_{50} undisturbed sample 50mm diameter
- U_{63} undisturbed sample 63mm diameter
- D disturbed sample
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- V vane shear (kPa)
- P pressuremeter
- Bs bulk sample
- E environmental sample
- R refusal

classification symbols and soil description
based on unified classification system

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- W_L liquid limit

consistency/density index
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable
- VL very loose
- L loose
- MD medium dense
- D dense
- VD very dense

Engineering Log - Borehole

Borehole No.	***HA02***		
Sheet	1 of 1		
Office Job No.:	***SYDEN199382***		
Client:	***TKD Architects Pty Ltd***	Date started:	***24.1.2017***
Principal:		Date completed:	***24.1.2017***
Project:	***Alexandria Park Community School***	Logged by:	***JR***
Borehole Location:		Checked by:	***AR***

drill model and mounting: | Easting: | slope: -90° | R.L. Surface:

hole diameter: 50 mm | Northing | bearing: | datum: AHD

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetro-meter kPa 100 200 300 400	structure and additional observations
HA				E+7.1ppm					**FILL (Clayey SAND):** Fine to medium grained, dark brown, with some angular gravels, brick fragments, cement fragments and roots.	D			No observed staining, odours, or ACM.
						0.5			Refusal. Borehole HA02 terminated at 0.4m				

method

DT	diatube
PT	push tube
SS	soild stem flight auger
HS	hollow stem flight auger
VT	V Bit, T Bit
AH	air hammer
CP	cable percussive
HA	hand auger
NDD	non-destructive digging
RC	rock corer

support

M mud N nil
C casing

penetration

1 2 3 4 no resistance ranging to refusal

water

10/1/98 water level on date shown

water inflow

water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description

based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey

Engineering Log - Borehole

Borehole No.	***HA03***
Sheet	1 of 1
Office Job No.:	***SYDEN199382***
Client:	***TKD Architects Pty Ltd***
Date started:	***24.1.2017***
Principal:	
Date completed:	***24.1.2017***
Project:	***Alexandria Park Community School***
Logged by:	***JR***
Borehole Location:	
Checked by:	***AR***

drill model and mounting: | Easting: | slope: -90° | R.L. Surface:

hole diameter: 50 mm | Northing | bearing: | datum: AHD

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetro-meter kPa 100 200 300 400	structure and additional observations
HA									Refusal on garden mulch at surface.				No observed staining, odours or ACM on surface soils.
									Borehole HA03 terminated at 0.1m				
						0.5							

method

DT	diatube
PT	push tube
SS	soild stem flight auger
HS	hollow stem flight auger
VT	V Bit, T Bit
AH	air hammer
CP	cable percussive
HA	hand auger
NDD	non-destructive digging
RC	rock corer

support

M mud N nil
C casing

penetration

1 2 3 4 no resistance ranging to refusal

water

10/1/98 water level on date shown

water inflow

water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description

based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

Engineering Log - Borehole

Borehole No.	**HA04**		
Sheet	1 of 1		
Office Job No.:	**SYDEN199382**		
Client:	**TKD Architects Pty Ltd**	Date started:	**24.1.2017**
Principal:		Date completed:	**24.1.2017**
Project:	**Alexandria Park Community School**	Logged by:	**JR**
Borehole Location:		Checked by:	**AR**

drill model and mounting: | Easting: | slope: -90° | R.L. Surface:

hole diameter: 50 mm | Northing | bearing: | datum: AHD

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material (soil type: plasticity or particle characteristics, colour, secondary and minor components.)	moisture condition	consistency/ density index	pocket penetro-meter kPa 100 200 300 400	structure and additional observations
HA				E+9.1ppm					**FILL (Clayey SAND):** Fine grained, dark brown, with some pieces roots and brick and concrete fragments. Trace fine gravels.	D			No observed staining, odours or ACM.
				E+6.6ppm		0.5			**FILL (Clayey SAND):** Brown, with some fragments of sandstone gravels.	M			
				E+5.4ppm		1.0							
						1.5			Borehole HA04 terminated at 1.1m				

method

DT	diatube
PT	push tube
SS	soild stem flight auger
HS	hollow stem flight auger
VT	V Bit, T Bit
AH	air hammer
CP	cable percussive
HA	hand auger
NDD	non-destructive digging
RC	rock corer

support

M mud N nil
C casing

penetration

1 2 3 4 — no resistance ranging to refusal

water

10/1/98 water level on date shown

water inflow

water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description

based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey

Engineering Log - Borehole

Borehole No.	**HA05**		
Sheet	1 of 1		
Office Job No.:	**SYDEN199382**		
Client:	**TKD Architects Pty Ltd**	Date started:	**24.1.2017**
Principal:		Date completed:	**24.1.2017**
Project:	**Alexandria Park Community School**	Logged by:	**JR**
Borehole Location:		Checked by:	**AR**

drill model and mounting: | Easting: | slope: -90° | R.L. Surface:

hole diameter: 50 mm | Northing | bearing: | datum: AHD

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material (soil type: plasticity or particle characteristics, colour, secondary and minor components.)	moisture condition	consistency/ density index	pocket penetro-meter kPa 100 200 300 400	structure and additional observations
HA				E+6.6ppm E+5.1ppm		0.5			**FILL (Clayey SAND):** Fine to coarse grained, brown to dark brown, trace gravels, wood and roots.				No observed staining, odours or ACM.
						1.0			Refusal. Borehole HA05 terminated at 0.5m				

method

DT	diatube
PT	push tube
SS	soild stem flight auger
HS	hollow stem flight auger
VT	V Bit, T Bit
AH	air hammer
CP	cable percussive
HA	hand auger
NDD	non-destructive digging
RC	rock corer

support

M mud N nil
C casing

penetration

1 2 3 4 no resistance ranging to refusal

water

10/1/98 water level on date shown
water inflow
water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description

based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey

Engineering Log - Borehole

Borehole No.	***HA06***		
Sheet	1 of 1		
Office Job No.:	***SYDEN199382***		
Client:	***TKD Architects Pty Ltd***	Date started:	***24.1.2017***
Principal:		Date completed:	***24.1.2017***
Project:	***Alexandria Park Community School***	Logged by:	***JR***
Borehole Location:		Checked by:	***AR***

drill model and mounting: | Easting: | slope: -90° | R.L. Surface:

hole diameter: 50 mm | Northing | bearing: | datum: AHD

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material (soil type: plasticity or particle characteristics, colour, secondary and minor components.)	moisture condition	consistency/ density index	pocket penetro-meter kPa 100 200 300 400	structure and additional observations
HA				E+1.7ppm					**FILL (Sand):** Fine grained, brown.	D			No observed staining, odours or ACM.
						0.5			Refusal. Borehole HA06 terminated at 0.4m				

method

DT	diatube
PT	push tube
SS	soild stem flight auger
HS	hollow stem flight auger
VT	V Bit, T Bit
AH	air hammer
CP	cable percussive
HA	hand auger
NDD	non-destructive digging
RC	rock corer

support

M mud N nil
C casing

penetration

1 2 3 4 no resistance ranging to refusal

water

10/1/98 water level on date shown

water inflow

water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description

based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Borehole No.	***HA07***		
Sheet	1 of 1		
Office Job No.:	***SYDEN199382***		
Client:	***TKD Architects Pty Ltd***	Date started:	***24.1.2017***
Principal:		Date completed:	***24.1.2017***
Project:	***Alexandria Park Community School***	Logged by:	***JR***
Borehole Location:		Checked by:	***AR***

drill model and mounting: | Easting: | slope: -90° | R.L. Surface:

hole diameter: 50 mm | Northing | bearing: | datum: AHD

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material (soil type: plasticity or particle characteristics, colour, secondary and minor components.)	moisture condition	consistency/ density index	pocket penetro-meter kPa 100 200 300 400	structure and additional observations
HA				E+2.1ppm					**FILL (Sandy CLAY):** Low plasticity, brown.	D			No observed staining, odours or ACM.
						0.5			Refusal. Borehole HA07 terminated at 0.2m				

method

DT	diatube
PT	push tube
SS	soild stem flight auger
HS	hollow stem flight auger
VT	V Bit, T Bit
AH	air hammer
CP	cable percussive
HA	hand auger
NDD	non-destructive digging
RC	rock corer

support

M mud N nil
C casing

penetration

1 2 3 4 — no resistance ranging to refusal

water

10/1/98 water level on date shown

water inflow

water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description

based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Borehole No.	***BH1/MW1***		
Sheet	1 of 1		
Office Job No.:	***SYDEN199382***		
Client:	***TKD Architects Pty Ltd***	Date started:	***11.4.2017***
Principal:		Date completed:	***11.4.2017***
Project:	***Alexandria Park Community School***	Logged by:	***LS***
Borehole Location:	***Refer to Figure 2***	Checked by:	***AR***

drill model and mounting:	Dando Terrier Track	Easting:	slope:	-90°	R.L. Surface:
hole diameter:	125 mm	Northing	bearing:		datum: AHD

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material (soil type: plasticity or particle characteristics, colour, secondary and minor components.)	moisture condition	consistency/ density index	pocket penetro-meter kPa 100 200 300 400	structure and additional observations
HA				0.2ppm					**Asphalt**	M			No observed odours, staining or ACM
									FILL (GRAVEL):fine to medium, grey, with some fine grained sand	D			
				1.2ppm					**FILL (Gravelly SAND):**fine to medium grained, brown, fine to medium, with some fragments of brick, asphalt, concrete and sandstone				
SS						1		SP	**SAND:**fine grained, brown		L		
				2.1ppm									
				0.1ppm		2					MD		
											D		
				1.1ppm		3							Well developed on 11/04/2017 + purged 20L
			19/04/17							W			
				3.6ppm		4					MD		
HS				2.2ppm		5							
				2.2ppm		6							
									Borehole BH1/MW1 terminated at 6m				

method

DT	diatube
PT	push tube
SS	soild stem flight auger
HS	hollow stem flight auger
VT	V Bit, T Bit
AH	air hammer
CP	cable percussive
HA	hand auger
NDD	non-destructive digging
RC	rock corer

support

M mud N nil
C casing

penetration

1 2 3 4 — no resistance ranging to refusal

water

10/1/98 water level on date shown
water inflow
water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description

based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Borehole No.	**BH2/MW2**		
Sheet	1 of 1		
Office Job No.:	**SYDEN199382**		
Client:	**TKD Architects Pty Ltd**	Date started:	**11.4.2017**
Principal:		Date completed:	**11.4.2017**
Project:	**Alexandria Park Community School**	Logged by:	**LS**
Borehole Location:	**Refer to Figure 2**	Checked by:	**AR**

drill model and mounting: Dando Terrier Track | Easting: | slope: -90° | R.L. Surface:

hole diameter: 125 mm | Northing | bearing: | datum: AHD

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material (soil type: plasticity or particle characteristics, colour, secondary and minor components.)	moisture condition	consistency/ density index	pocket penetro-meter kPa 100 200 300 400	structure and additional observations
RC HA									**Asphalt**				No observed odours, staining or ACM
									FILL (GRAVEL):fine to medium, grey, with some fine sand	D			
				1.9ppm					**FILL (Gravelly SAND):**fine to coarse grained, brown, fine to medium, with some fragments of brick, concrete, asphalt, metal and sandstone				
				1.2ppm		1							
SS								SP	**SAND:**fine grained, brown	M	L		
				3.2ppm		2							
											MD		
											D		
HS			19/04/17	4.5ppm		3				W	L		
						4			colour becomes light brown				well developed on 11/04/2017 + purged 20L
				3.2ppm									
						5							
				1.2ppm		6							
									Borehole BH2/MW2 terminated at 6m				

method

DT	diatube
PT	push tube
SS	soild stem flight auger
HS	hollow stem flight auger
VT	V Bit, T Bit
AH	air hammer
CP	cable percussive
HA	hand auger
NDD	non-destructive digging
RC	rock corer

support

M mud N nil
C casing

penetration

1 2 3 4 — no resistance ranging to refusal

water

10/1/98 water level on date shown
water inflow
water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description

based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Borehole No.	***BH3/MW3***		
Sheet	1 of 1		
Office Job No.:	***SYDEN199382***		
Client:	***TKD Architects Pty Ltd***	Date started:	***11.4.2017***
Principal:		Date completed:	***11.4.2017***
Project:	***Alexandria Park Community School***	Logged by:	***LS***
Borehole Location:	***Refer to Figure 2***	Checked by:	***AR***

drill model and mounting:	Dando Terrier Track	Easting:	slope:	-90°	R.L. Surface:
hole diameter:	125 mm	Northing	bearing:		datum: AHD

drilling information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material (soil type: plasticity or particle characteristics, colour, secondary and minor components.)	moisture condition	consistency/ density index	pocket penetro-meter kPa 100 200 300 400	structure and additional observations
HA				0.5ppm					**FILL (Silty SAND):** fine to medium grained, brown, with some clay, fragments of brick, concrete and metal	M			No observed odour, staining or ACM
				1.3pp					**FILL (Gravelly SAND):** fine to coarse grained, brown to grey, fine to medium, with some fragments of brick, metal, concrete and asphalt	D			
						1			**FILL (CLAY):** medium plasticity, red to white				
SS				1.7ppm		2		SP	**SAND:**fine to medium grained, brown to grey		L		
			19/04/17	0.2ppm		3				M	MD		
HS				2.3ppm		4				W	L		well developed on 11/04/2017 + purged 20L
				1.7ppm		5							
						6			Borehole BH3/MW3 terminated at 6m				

method

DT	diatube
PT	push tube
SS	soild stem flight auger
HS	hollow stem flight auger
VT	V Bit, T Bit
AH	air hammer
CP	cable percussive
HA	hand auger
NDD	non-destructive digging
RC	rock corer

support

M	mud	N	nil
C	casing		

penetration

1 2 3 4 — no resistance ranging to refusal

water

10/1/98 water level on date shown

water inflow

water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
N	standard penetration test (SPT)
N*	SPT - sample recovered
Nc	SPT with solid cone
V	vane shear (kPa)
P	pressuremeter
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description

based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Environmental Log - Excavation

Excavation No.	***TP3***
Sheet	1 of 1
Office Job No.:	***SYDEN199382***
Client:	***TKD Architects Pty Ltd***
Date started:	***23.1.2017***
Principal:	
Date completed:	***23.1.2017***
Project:	***Alexandria Park Community School***
Logged by:	***JR***
Test pit location:	
Checked by:	***AR***

equipment type and model: 8 tonner | Pit Orientation: | Easting: m | R.L. Surface:

excavation dimensions: 2m long 1m wide | Northing: m | datum: AHD

excavation information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetro-meter kPa 100 200 300 400	structure and additional observations
Ex				E+1.7ppm					**FILL (Clayey SAND):** Medium to coarse grained, brown, low plasticity, with some roots, bricks, glass, wood, tiles and concrete fragments.				No visible ACM, staining or odour.
				E+2.1ppm / DUP 02 / DUP02A		0.5							
									FILL (Clay): High plasticity, red-brown.	M			
				E+2.3ppm		1.0			**FILL (Clay):** High plasticity, white to light grey.				
				E+3.1ppm					**FILL (Clay):** High plasticity, white to orange to red.				
						1.5			Test pit TP3 terminated at 1.4m				

Sketch

method
- DT diatube
- PT push tube
- SS soild stem flight auger
- HS hollow stem flight auger
- VT V Bit, T Bit
- AH air hammer
- CP cable percussive
- HA hand auger
- NDD non-destructive digging
- RC rock corer

support
- S shoring
- N nil

penetration
1 2 3 4 — no resistance ranging to refusal

water
- water level on date shown
- water inflow
- water outflow

notes, samples, tests
- U_{50} undisturbed sample 50mm diameter
- U_{63} undisturbed sample 63mm diameter
- D disturbed sample
- V vane shear (kPa)
- Bs bulk sample
- E environmental sample
- R refusal

classification symbols and soil description
based on unified classification system

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- W_L liquid limit

consistency/density index
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable
- VL very loose
- L loose
- MD medium dense
- D dense
- VD very dense

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Environmental Log - Excavation

Excavation No.	TP4
Sheet	1 of 1
Office Job No.:	SYDEN199382
Client:	TKD Architects Pty Ltd
Date started:	23.1.2017
Principal:	
Date completed:	23.1.2017
Project:	Alexandria Park Community School
Logged by:	JR
Test pit location:	
Checked by:	AR

equipment type and model: 8 tonner | Pit Orientation: | Easting: m | R.L. Surface:

excavation dimensions: 2m long 1m wide | Northing: m | datum: AHD

excavation information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material (soil type: plasticity or particle characteristics, colour, secondary and minor components.)	moisture condition	consistency/ density index	pocket penetro-meter kPa 100 200 300 400	structure and additional observations
Ex				E+2.3ppm					**FILL (Clayey SAND):** Fine grained, brown, with some angular gravels, wood, roots, files, glass and cement fragments.				No visible ACM, staining or odour.
						0.5							
				E+3.2ppm									
									FILL (Clay): High plasticity, white to orange to grey.	M			
				E+3.7ppm		1.0							
									FILL (Clay): High plasticity, white to grey.				
				E+1.9ppm		1.5							
									Test pit TP4 terminated at 1.5m				

Sketch

method
- DT diatube
- PT push tube
- SS soild stem flight auger
- HS hollow stem flight auger
- VT V Bit, T Bit
- AH air hammer
- CP cable percussive
- HA hand auger
- NDD non-destructive digging
- RC rock corer

support
- S shoring
- N nil

penetration
1 2 3 4 — no resistance ranging to refusal

water
- water level on date shown
- water inflow
- water outflow

notes, samples, tests
- U_{50} undisturbed sample 50mm diameter
- U_{63} undisturbed sample 63mm diameter
- D disturbed sample
- V vane shear (kPa)
- Bs bulk sample
- E environmental sample
- R refusal

classification symbols and soil description
based on unified classification system

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- W_L liquid limit

consistency/density index
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable
- VL very loose
- L loose
- MD medium dense
- D dense
- VD very dense

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Environmental Log - Excavation

Excavation No.	***TP5***
Sheet	1 of 1
Office Job No.:	***SYDEN199382***
Client:	***TKD Architects Pty Ltd***
Date started:	***23.1.2017***
Principal:	
Date completed:	***23.1.2017***
Project:	***Alexandria Park Community School***
Logged by:	***JR***
Test pit location:	
Checked by:	***AR***

equipment type and model: 8 tonner | Pit Orientation: | Easting: m | R.L. Surface:

excavation dimensions: 2m long 1m wide | Northing: m | datum: AHD

excavation information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material (soil type: plasticity or particle characteristics, colour, secondary and minor components.)	moisture condition	consistency/ density index	pocket penetro-meter kPa 100 200 300 400	structure and additional observations
Ex				E+1.1ppm					**FILL (Clayey SAND):** Fine grained, brown, trace angular concrete fragments and bonded asbestos fragments.	D			No observed staining or odours. Five to six fragments of bonded asbestos cement sheeting found at 0.1-0.3m.
				E+1.7ppm		0.5							
				E+2.1ppm / DUP01		1.0			**FILL (Gravelly SAND):** Fine to medium, Brown to grey, trace sandstone and bonded asbestos fragments.	M			Bonded asbestos cement sheeting found at 0.9m.
						1.5			**FILL (Sand):** Fine grained, light grey, black mottled.	M			No observed staining, odours or ACM.
				E+1.6ppm		2.0		SP	**SAND:** Fine grained, grey to brown.	M			Botany Sand. No observed staining or odours.
						2.5			Test pit TP5 terminated at 2.2m				

Sketch

method

DT	diatube
PT	push tube
SS	soild stem flight auger
HS	hollow stem flight auger
VT	V Bit, T Bit
AH	air hammer
CP	cable percussive
HA	hand auger
NDD	non-destructive digging
RC	rock corer

support

S shoring N nil

penetration

1 2 3 4 no resistance ranging to refusal

water

water level on date shown

water inflow

water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
V	vane shear (kPa)
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description

based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
A TETRA TECH COMPANY

Environmental Log - Excavation

Excavation No.	***TP6***
Sheet	1 of 1
Office Job No.:	***SYDEN199382***
Client:	***TKD Architects Pty Ltd***
Date started:	***23.1.2017***
Principal:	
Date completed:	***23.1.2017***
Project:	***Alexandria Park Community School***
Logged by:	***JR***
Test pit location:	
Checked by:	***AR***

equipment type and model: 8 tonner | Pit Orientation: | Easting: m | R.L. Surface:

excavation dimensions: 2m long 1m wide | Northing: m | datum: AHD

excavation information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetro-meter kPa 100 200 300 400	structure and additional observations
Ex				E+6.1ppm					**FILL (Clayey SAND):** Medium to coarse grained, brown to black, with some brick, metal. Trace bonded asbestos cement fragment.	M			No staining or odours observed. One fragment of bonded asbestos cement sheeting (4cmx 4cm) found at 0.3m. No other ACM observed in test pit.
				E+9.1ppm		0.5							
									FILL (Sand): Fine to medium grained, grey to dark grey.				
				E+2.7ppm		1.0			**FILL (Sand):** Medium to coarse grained, light grey to white.				
						1.5			Test pit TP6 terminated at 1.4m				

Sketch

method

DT	diatube
PT	push tube
SS	soild stem flight auger
HS	hollow stem flight auger
VT	V Bit, T Bit
AH	air hammer
CP	cable percussive
HA	hand auger
NDD	non-destructive digging
RC	rock corer

support

S shoring N nil

penetration

1 2 3 4 no resistance ranging to refusal

water

water level on date shown

water inflow

water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
V	vane shear (kPa)
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description

based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
A TETRA TECH COMPANY

Environmental Log - Excavation

Excavation No.	***TP7***
Sheet	1 of 1
Office Job No.:	***SYDEN199382***
Client:	***TKD Architects Pty Ltd***
Date started:	***23.1.2017***
Principal:	
Date completed:	***23.1.2017***
Project:	***Alexandria Park Community School***
Logged by:	***JR***
Test pit location:	
Checked by:	***AR***

equipment type and model: 8 tonner | Pit Orientation: | Easting: m | R.L. Surface:

excavation dimensions: 2m long 1m wide | Northing: m | datum: AHD

excavation information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material (soil type: plasticity or particle characteristics, colour, secondary and minor components.)	moisture condition	consistency/ density index	pocket penetro-meter kPa 100 200 300 400	structure and additional observations
Ex				E+4.0ppm					**FILL (Gravelly SAND):** Fine to coarse grained, brown to grey, with some bricks, tiles, clay and wood. Trace bonded asbestos cement fragment.	D			No observed staining or odours
				E+3.2ppm		0.5							
				E+3.2ppm		1.0							
										M			One fragment of bonded asbestos cement sheeting observed at 1.2m
						1.5							
								SP	**SAND:** Fine grained, grey.				Botany Sand. No observed staining or odours.
				E+2.7ppm		2.0							
						2.5			Test pit TP7 terminated at 2.4m				

Sketch

method

DT	diatube
PT	push tube
SS	soild stem flight auger
HS	hollow stem flight auger
VT	V Bit, T Bit
AH	air hammer
CP	cable percussive
HA	hand auger
NDD	non-destructive digging
RC	rock corer

support

S shoring N nil

penetration

1 2 3 4 no resistance ranging to refusal

water

water level on date shown

water inflow

water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
V	vane shear (kPa)
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description

based on unified classification system

moisture

D	dry
M	moist
W	wet
Wp	plastic limit
W_L	liquid limit

consistency/density index

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
A TETRA TECH COMPANY

Environmental Log - Excavation

Excavation No.	***TP8***
Sheet	1 of 1
Office Job No.:	***SYDEN199382***
Client:	***TKD Architects Pty Ltd***
Date started:	***23.1.2017***
Principal:	
Date completed:	***23.1.2017***
Project:	***Alexandria Park Community School***
Logged by:	***JR***
Test pit location:	
Checked by:	***AR***

equipment type and model: 8 tonner | Pit Orientation: | Easting: m | R.L. Surface:

excavation dimensions: 2m long 1m wide | Northing: m | datum: AHD

excavation information | **material substance**

method	penetration 1 2 3	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	pocket penetro-meter kPa 100 200 300 400	structure and additional observations
Ex				E+3.1ppm					**FILL (Clayey SAND):** Medium to coarse grained, brown, with some roots, bricks and metal.	D			No observed staining, odours or ACM.
				E+2.3ppm / DUP03		0.5			**FILL (Sand):** Fine grained, grey.	M			
				E+1.1ppm		1.0			**CLAY:** Medium plasticity, white to red.	M			
						1.5			Test pit TP8 terminated at 1.2m				

Sketch

method

DT	diatube
PT	push tube
SS	soild stem flight auger
HS	hollow stem flight auger
VT	V Bit, T Bit
AH	air hammer
CP	cable percussive
HA	hand auger
NDD	non-destructive digging
RC	rock corer

support

S shoring N nil

penetration

1 2 3 4 no resistance ranging to refusal

water

water level on date shown

water inflow

water outflow

notes, samples, tests

U_{50}	undisturbed sample 50mm diameter
U_{63}	undisturbed sample 63mm diameter
D	disturbed sample
V	vane shear (kPa)
Bs	bulk sample
E	environmental sample
R	refusal

classification symbols and soil description

based on unified classification system

moisture

D	dry
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Wp	plastic limit
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consistency/density index

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Appendix D – Equipment Calibration Records

ThermoFisher SCIENTIFIC

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RENTALS

Equipment Report – Micropurge Flow Cell

This unit has been performance checked as follows:

Operations Check		
☑ Clean / decon		

Date: 18/04/2017 Checked by: MILENKO

Signed: fm

Please check that the following items are received and that all items are cleaned and decontaminated before return. A minimum $20 cleaning / service / repair charge may be applied to any unclean or damaged items. Items not returned will be billed for at the full replacement cost.

Sent	Received	Returned	Item
			Sample Pro Pump
☑	☐	☐	Flow Cell
☑	☐	☐	3-way valve
☑	☐	☐	Connecting tubes (3)
☒	☐	☐	Optional – cable
☐	☐	☐	
☐	☐	☐	

Processors Signature/ Initials

Quote Reference	C8006646	Condition on return
Customer Ref		
Equipment ID	EFC500-15	
Equipment serial no.		
Return Date	/ /	
Return Time		

ThermoFisher SCIENTIFIC

The world leader in serving science

RENTALS

Equipment Report – Solinst Model 122 Interface Meter

This Meter has been performance checked / calibrated* as follows:

Cleaned/Tested **Pass?** ☑**Yes** ☐**No**

☑Probe

☑Tape/Reel

☑Performance Test & Battery Voltage Check (8.6 v) 8.0v minimum

Date: 3/4/2017 Checked by: Jerry

Signed: J

Please check that the following items are received and that all items are cleaned and decontaminated before return. A minimum $20 cleaning / service / repair charge may be applied to any unclean or damaged items. Items not returned will be billed for at the full replacement cost.

Sent	Received	Returned	Item
☑	☐	☐	Operations check OK
☑	☐	☐	Plastic Box / Bag
☑	☐	☐	Spare 9V Battery Qty 1
☑	☐	☐	Probe Cleaning Brush
☐	☐	☐	Decon
☑	☐	☐	Instruction leaflet
☑	☐	☐	Tape Guide
☐	☐	☐	

Processors Signature/ Initials MS

Quote Reference	CS0066646	Condition on return
Customer Ref		
Equipment ID	SOL122-11	
Equipment serial no.	236572	
Return Date	/ /	
Return Time		

RENTALS

Equipment Certification Report – TPS 90FLMV Water Quality Meter

This Water Quality Meter has been performance checked and calibrated as follows:

Sensor	Concentration	Span 1	Span 2	Traceability Lot #	Pass?
pH	pH 7.00 / pH 4.00	7.00 pH	4.00 pH	292530/290533	☑
Conductivity	12.88mS/cm	0.00 mS/cm	12.88 mS/cm	QA1331	☑
TDS	36 ppk	— ppk	check only ppk	298901	☑
Dissolved Oxygen	Sodium Sulphite / Air	0.00 ppm in Sodium Sulphite	9.01 ppm Saturation in Air	1603215673 NJ1314	☑

Check only

Redox (ORP) *	Electrode operability test	240mV +/- 10%	239 mV	0647	☑

* This meter uses an Ag/AgCl ORP electrode. To convert readings to SHE (Standard Hydrogen Electrode), add 199mV to the mV reading.

☑ Battery Status 7.6 (min 7.2V)
☑ Electrical Safety Tag attached (AS/NZS 3760)

Tag No: 000659

Valid to: 16/5/2017

☑ Temperature 21.6 °C
☑ Electrodes Cleaned and checked

Date: 18/4/2017

Signed: [signature]

Please check that the following items are received and that all items are cleaned and decontaminated before return. A minimum $30 cleaning / service / repair charge may be applied to any unclean or damaged items. Items not returned will be billed for at the full replacement cost.

Sent	Returned	Item
☑	☐	90FLMV Unit. Ops check/Battery status: 8V
☑	☐	pH sensor with wetting cap, 5m
☑	☐	Conductivity/TDS/Temperature K=10 sensor, 5m
☑	☐	Dissolved oxygen YSI5739 sensor with wetting cap, 5m
☑	☐	Redox (ORP) sensor with wetting cap, 5m
☑	☐	Power supply 240V to 12V DC 200mA
☑	☐	Instruction Manual
☑	☐	Quick Guide
☑	☐	Syringe with storage solution for pH and ORP sensors
☑	☐	Carry Case
☑	☐	Check to confirm electrical safety (tag must be valid)

Date: 18/4/2017

Signed: [signature]

TFS Reference	CS 006646	Return Date: / /
Customer Reference		Return Time:
Equipment ID	90FLMV -2	Condition on return:
Equipment Serial No.	W4488	

ThermoFisher SCIENTIFIC

RENTALS

Equipment Report – Geo Pump 2 PERISTALTIC PUMP

This pump has been cleaned and checked:

☑ Clean and check all components	✓ Ops check

Date: 18/04/2017 Checked by: MILENKO

Signed:

☑ Electrical Safety Tag attached (AS/NZS 3760

Tag No: 000666

Valid to: 20/04/2017

Please check that the following items are received and that all items are cleaned and decontaminated before return. A minimum $20 cleaning / service / repair charge may be applied to any unclean or damaged items. Items not returned will be billed for at the full replacement cost.

Sent	Received	Returned	Item
✓			Peristaltic Model (GP2) Pump, Alligator Clips
✓			Instruction Sheet
✓			3/8" Medical Grade Silicone Tubing (pump head) 30cm
✓			2 metal Hose Clips
✓			Transport Case
✓			Charger
✓			Electrical Safety Tag attached (AS/NZS 3760
✓			2X BATTERY
✓			2X WELL WEIGHT

Processors Signature/ Initials

EE Quote Reference	CS00 6646	Condition on return
Customer Ref		
Equipment ID	GP2SI	
Equipment serial no.		
Return Date	/ /	
Return Time		

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

0120

coffey

Consigning Office: CHATSWOOD

Report Results to: ALEX RUCTINGER — Mobile: — Email: @coffey.com

Invoices to: (DF-CHAT-GENERAL) — Phone: — Email: @coffey.com

Project No: SYDEN199382 — Task No: Laboratory

Project Name: Alexandria — Laboratory: MGT

Sampler's Name: Alex.R — Project Manager: Alex.R

Special Instructions: QUOTE: # 170412CEN

Relevant agreements: Eurofins COF_ENAUABTF00952AA_MSA1 ; ALS COF_ENAUABTF00952AA_MSA2 and SGS COF_ENAUABTF00952AA_MSA3

Analysis Request Section

Lab No.	Sample ID	Sample Date	Time	Matrix (Soil...etc)	Container Type & Preservative*	T-A-T (specify)	Metals (+Sb)	TPH	Ammonia/nitrate	Potassium perchlorate	Trihalomethanes	SVOC/SVOC VOC VHC, BTEX, +66-C9								NOTES
	MW1	19-4-17		WATER	4v, 3G, 2P	5 DAY	X	X	X	X	X	X	X							
	MW2	↓		↓	↓	↓	X	X	X	X	X	X	X							
	MW3						X	X	X	X	X	X	X							
	DUP01				4v, 1G, 2P		X	X	X											
	TB				2v								X							
	TS				2v								X	X						

RELINQUISHED BY		RECEIVED BY	
Name: Alex.R	Date: 19-4-17	Name: Ursula Lag	Date: 19/4
Coffey Environments	Time: 11:45	Company:	Time:
Name:	Date:	Name:	Date:
Company:	Time:	Company:	Time:

Sample Receipt Advice: (Lab Use Only)

- All Samples Recieved in Good Condition ☐
- All Documentation is in Proper Order ☐
- Samples Received Properly Chilled ☐
- Lab. Ref/Batch No.

***Container Type & Preservation Codes:** **P** - Plastic, **G**- Glass Bottle, **J** - Glass Jar, **V**- [illegible] **Z** - Ziplock Bag, **N** - Nitric Acid Preserved, **C** - Hydrochloric Acid Preserved, **S** - Sulphuric Acid Preserved, **I** - Ice, **ST** - Sodium Thiosulfate, **NP** - No Preservative, [illegible] - Other Preservative

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ThermoFisher SCIENTIFIC

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RENTALS

Equipment Certification Report – Isobutylene

Isobutylene for Minirae PID 2000/3000/Lite:

Bottle Size: 34 L

Current Capacity: 500 PSI

Capacity on return: _____ PSI

Lot #: 168524 cy/179

Exp Date: DEC 2018

Please check that the following items are received and that all items are cleaned and decontaminated before return. A minimum $30 cleaning / service / repair charge may be applied to any unclean or damaged items. Items not returned will be billed for at the full replacement cost.

Sent	Return	Item
☑	☐	Isobutylene bottle
☑	☐	Regulator (ID: AL713-9)
☑	☐	Tubing
☐	☐	Carry Case

Date: 20/01/2017

Signed: [signature]

TFS Reference	C8006156	Return Date:	/ /
Customer Reference		Return Time:	
Equipment ID	AL713-9	Condition on return:	
Equipment Serial No.			

ThermoFisher SCIENTIFIC

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RENTALS

Equipment Report - MiniRAE 3000 PID

This Gas Meter has been performance checked and calibrated as follows:

Lamp	Compound	Concentration	Zero	Span	Traceability Lot #	Pass?
10.6 eV	Isobutylene	100 ppm	0.0 ppm	100.0 ppm	Lot 389261 Cyl 3	☑

Alarm Limits

High	100 ppm
Low	50 ppm

Bump Test

Date	Target Gas	Reading	Pass?
20/01/2017	100 ppm	100.1 ppm	☑

☑ Battery Status 100 %
☑ 10 minutes test complete
☑ Spare battery status (Min 5.5 volts)
☑ Electrical Safety Tag attached (AS/NZS 3760)

☑ Performance check (pump, lamp, sensor)
☑ Data cleared
☑ Filters checked

Tag No: 000950

Valid to: 09/02/2017

Date: 20/01/2017

Signed: Milenko

Please check that the following items are received and that all items are cleaned and decontaminated before return. A minimum $30 cleaning / service / repair charge may be applied to any unclean or damaged items. Items not returned will be billed for at the full replacement cost.

Sent	Returned	Item
☑	☐	MiniRAE 2000 PID / Operational Check / Battery Status 100 %
☑	☐	Lamp 10.6 eV, Compound Set to: Isobutylene C/factor: 1
☑	☐	Protective yellow rubber boot
☑	☐	Inlet probe (attached to PID)
☑	☐	Spare water trap filter(s) Qty 1
☑	☐	Charger 240V to 12V1250mA
☑	☐	Cradle and Travel Charger
☑	☐	Instruction Manual behind foam on the lid of case "
☑	☐	Quick Guide Sheet behind foam on the lid of case "
☑	☐	Spare Alkaline Battery Compartment with batteries
☑	☐	Inline Moisture trap Filter Guide Laminated
☒	☐	Calibration regulator & tubing (optional)
☒	☐	Data cable and Software CD (optional)
☑	☐	Carry Case
☑	☐	Check to confirm electrical safety (tag must be valid)

Date: 20/01/2017

Signed: Milenko

TFS Reference	CS006156	Return Date:	/ /
Customer Reference		Return Time:	
Equipment ID	PID3000-8	Condition on return:	
Equipment Serial No.	592912660		

coffey

Internal Service Report: MiniRae 2000 PID

Calibrated By	Simaal
Calibration Date	23.01.17
Equipment Serial Number	00950
Lamp Type	–

Description of known problems

- [x] Sensor assembly, housing and metal filter cleaned
- [x] Lamp and housing cleaned and checked
- [x] Pump disassembled and cleaned
- [x] Battery condition checked

Calibration has been performed to manufacturer's specifications, using the standards shown below.

Isobutylene Standard (ppm)	Traceability Lot No.	Pre Calibration Reading (ppm)	Post Calibration Reading (ppm)
0	-		
100	168524	102.4	100.7

Comments about the services performed
Calibrated @ 1415 Hrs.

Signature of calibrator	

coffey

Internal Service Report: MiniRae 2000 PID

Calibrated By	JR
Calibration Date	24.1.17
Equipment Serial Number	00950
Lamp Type	

Description of known problems

- ☑ Sensor assembly, housing and metal filter cleaned
- ☑ Lamp and housing cleaned and checked
- ☑ Pump disassembled and cleaned
- ☑ Battery condition checked

Calibration has been performed to manufacturer's specifications, using the standards shown below.

Isobutylene Standard (ppm)	Traceability Lot No.	Pre Calibration Reading (ppm)	Post Calibration Reading (ppm)
0	-		
100	168524	104	100.1

Comments about the services performed

Signature of calibrator	

coffey

Internal Service Report: MiniRae 2000 PID

Calibrated By	Jamaid
Calibration Date	24.01.2017.
Equipment Serial Number	00950.
Lamp Type	—

Description of known problems
NIL Bump test.

- ☑ Sensor assembly, housing and metal filter cleaned
- ☑ Lamp and housing cleaned and checked
- ☐ Pump disassembled and cleaned
- ☑ Battery condition checked

Calibration has been performed to manufacturer's specifications, using the standards shown below.

Isobutylene Standard (ppm)	Traceability Lot No.	Pre Calibration Reading (ppm)	Post Calibration Reading (ppm)
0	-		
100		101	101

Comments about the services performed
No calibration performed, only bump testing

Signature of calibrator	

coffey

Internal Service Report: MiniRae 2000 PID

Calibrated By	Jumaid
Calibration Date	23.01.2017
Equipment Serial Number	60950.
Lamp Type	-

Description of known problems
NIL

- ☑ Sensor assembly, housing and metal filter cleaned
- ☑ Lamp and housing cleaned and checked
- ☐ Pump disassembled and cleaned
- ☑ Battery condition checked

Calibration has been performed to manufacturer's specifications, using the standards shown below.

Isobutylene Standard (ppm)	Traceability Lot No.	Pre Calibration Reading (ppm)	Post Calibration Reading (ppm)
0	-		
100	168524	107.3	101.0

Comments about the services performed
Callibrated 1230 PM.

Signature of calibrator	

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Appendix E – Data Validation Assessment

Coffey Services Australia Pty Ltd

A.B.N. 55 139 460 521

DATA VALIDATION REPORT

Job No: SYDEN199382

Soil Analysis - Lab Batch References 531768, 533096, 536147 and ES170947

Groundwater – Lab Batch Reference: 542888

I. SAMPLE HANDLING

	Yes	Partially (comment below)	No (Comment below)
1. Were the sample **holding times** met?	☐	☒	☐
2. Were the samples in **proper custody** between the field and reaching the laboratory?	☒	☐	☐
3. Were the samples **properly and adequately** preserved? *This includes keeping the samples chilled, where applicable.*	☒	☐	☐
4. Were the samples received by the laboratory in good condition?	☒	☐	☐

COMMENTS:

All sample holding times were met with the exception of the TCLP analysis (required for preliminary waste classification purposes) for Benzo(a)pyrene on sample TP8 0.4-0.6. Coffey had requested the analysis to be conducted within holding times, however due to a laboratory logging error the sample was analysed on 28 February 2017, exceeding the recommended holding time. Coffey notes that the analysis was relevant for the preliminary waste classifications purposes only, and that the sample was kept under laboratory custody within the fridge. Additionally, B(a)P is less prone to rapid degradation when compared with other organic compounds. TCLP data for benzo(a)pyrene on from sample TP8 0.4-0.6 should be used with caution.

Sample Handling was:

☐ Satisfactory

☒ Partially Satisfactory

☐ Unsatisfactory

Coffey Services Australia Pty Ltd

A.B.N. 55 139 460 521

DATA VALIDATION REPORT

Job No: SYDEN199382

Soil Analysis - Lab Batch References 531768, 533096, 536147 and ES170947

Groundwater – Lab Batch Reference: 542888

II PRECISION/ACCURACY ASSESSMENT

	Yes	No (Comment below)
1. Was a NATA registered laboratory used?	☒	☐
2. Did the laboratory perform the requested tests?	☒	☐
3. Were the laboratory methods adopted NATA endorsed?	☒	☐
4. Were the appropriate test procedures followed?	☒	☐
5. Were the reporting limits satisfactory?	☒	☐
6. Was the NATA Seal on the reports?	☒	☐
7. Were the reports signed by an authorised person?	☒	☐

COMMENTS:

Precision/Accuracy of the Laboratory Report	☒ Satisfactory ☐ Partially Satisfactory	☐ Unsatisfactory

Coffey Services Australia Pty Ltd

A.B.N. 55 139 460 521

DATA VALIDATION REPORT

Job No: SYDEN199382

Soil Analysis - Lab Batch References 531768, 533096, 536147 and ES170947

Groundwater – Lab Batch Reference: 542888

III. FIELD QA/QC

1. Number of Primary Samples Analysed — Soil 21; Groundwater 3

2. Number of Days of Sampling: — Soil 2; Groundwater 1

3. Number and Type of QA/QC Samples Collected:

Quality Control Sample Type	No.	% Total No. Samples
Intra-lab Duplicates (Soil)	3	14.2%
Intra-lab Duplicates (Water)	1	33.33%
Inter-lab Duplicates (Soil)	1	4.8%
Inter-lab Duplicates (Water)	0	0%
Trip Blanks	3	-
Trip Spike	3	-
Equipment Rinsate	1	-

4. FIELD DUPLICATES

	Yes	No (Comment below)
A. Were an Adequate Number of field duplicates analysed for each chemical?	☐	☒
B. Were RPDs within Control Limits?		
a. Organics (No limit (<10 x LOR); 50% (10-20 x LOR); 30% (>20 x LOR))	☐	☒
b. Metals/Inorganics (No limit (<10 x LOR); 50% (10-20 x LOR); 30% (>20 x LOR))	☐	☒
c. Volatile & semi volatile organics (No limit (<10 x LOR); 50% (10-20 x LOR); 30% (>20 x LOR))	☐	☒

Coffey Services Australia Pty Ltd

A.B.N. 55 139 460 521

DATA VALIDATION REPORT

Job No: SYDEN199382

Soil Analysis - Lab Batch References 531768, 533096, 536147 and ES170947

Groundwater – Lab Batch Reference: 542888

COMMENTS:

The number of soil inter-lab duplicate samples was slightly less (0.2%) than the 5% recommended within AS4482.1 (2005). This is not expected to directly influence the usability of the data. The intra-laboratory duplicates collected greatly exceeded the recommended density. Groundwater intra-laboratory duplicates exceed the recommended density. Due to the number of groundwater samples collected (3), no inter-laboratory groundwater samples were taken.

Calculated RPDs have been presented in Table 2 (soil) and table 6 (groundwater). In general the comparison of primary and duplicate samples demonstrated good reproducibility, when the LOR was considered. RPDs for groundwater were within the limits specified above). The observed variability reported between the primary and duplicate soil samples is assessed to be attributable to the heterogeneity of the fill material within the site.

IV. TRIP BLANKS (TB) AND TRIP SPIKES (TS)

	Yes	No (Comment below)
A. Were an Adequate Number of trip blanks and spikes analysed?	☒	☐
B. Were the trip blanks free of contaminants and trip spike were within acceptance limit?	☒	☐
C. Were the trip spikes reported within acceptable recoveries?	☒	☐

COMMENTS:

6. EQUIPMENT RINSATE SAMPLES

	Yes	No (Comment below)
A. Were an adequate number of Equipment Rinsate Samples collected?	☒	☐
B. Were the Equipment Rinsate Samples free of contaminants?	☒	☐

Field QA/QC was:	☒ Satisfactory ☐ Partially Satisfactory	☐ Unsatisfactory

Coffey Services Australia Pty Ltd

A.B.N. 55 139 460 521

DATA VALIDATION REPORT

Job No: SYDEN199382

Soil Analysis - Lab Batch References 531768, 533096, 536147 and ES170947

Groundwater – Lab Batch Reference: 542888

V LABORATORY INTERNAL QUALITY CONTROL PROCEDURES

1. Type of QA/QC Samples

	Yes	No
Laboratory Blanks/Reagent Blanks	☒	☐
Laboratory Duplicates	☒	☐
Matrix Spikes/Matrix Spike Duplicates	☒	☐
Laboratory Control Spike	☒	☐
Surrogate (where appropriate)*	☒	☐

	Yes	**No** (Comment below)
2 Were the laboratory blanks/reagents blanks free of contamination?	☒	☐
3. Were the spike recoveries within control limits?		
a. Organics (70% to 130%)	☐	☒
b. Metals/Inorganic (70% to 130%)	☒	☐
4. Were the RPDs of the laboratory duplicates within control limits?	☒	☐
5. Were the surrogate recoveries within control limits?	☒	☐

COMMENTS:

- The spike recovery for d-BHC (in report 531768) was slightly above the acceptable upper limit of 130%. An acceptable recovery was however obtained for the laboratory control sample indicating that a there was a sample matrix interference.

5. The laboratory internal QA/QC was:	☒ Satisfactory ☐ Partially Satisfactory	☐ Unsatisfactory

Coffey Services Australia Pty Ltd

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DATA VALIDATION REPORT

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Groundwater – Lab Batch Reference: 542888

VI DATA USABILITY

1. Data Directly Usable ☐
2. Data Usable with the following considerations ☒
3. Data Not Usable. ☐

COMMENTS:

The TCLP data for B(a)P on sample TP3_0.4-0.6 should be used with care. The TCLP data was used in the assessment to inform a waste classification of the material encountered on site, and as such the waste classification should remain as a preliminary classification. Actual waste classification of soil materials requiring excavation and disposal should be confirmed through further analysis during earth works.

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Appendix F – Laboratory Analytical Certificates & Chain of Custody Documentation

Project Name: Alexandria School Laboratory: Eurofins

Sampler's Name: Junaid Project Manager: Alex Rauchinger

Special Instructions:

Relevant agreements: Eurofins COF_ENAUABTF00952AA_MSA1 ; ALS COF_ENAUABTF00952AA_MSA2 and SGS COF_ENAUABTF00952AA_MSA3

Analysis Request Section

Lab No.	Sample ID	Sample Date	Time	Matrix (Soil...etc)	Container Type & Preservative*	T-A-T (specify)	S.TE 64	metals m8	~~Sub Bulk Asb~~	VOC	VOS	Asbestos (Y/A)	OCP	PCB						NOTES
	TP8 0.0 - 0.1	23/1		Soil	J, Z		/	/												
	TP8 0.4 - 0.6				J, Z		/	/					/							
	TP8 0.8 - 1.0				J															
	TP6 0.0 - 0.1				J, Z		/	/				/	/							
	TP6 0.4 - 0.6				J, Z		/	/												
	TP6 0.9 - 1.0				J															
	TP7 0.0 - 0.1				Z, J		/	/	/	/	/	/								
	TP7 0.4 - 0.6				Z, J															
	TP7 0.9 - 1.0				Z, J		/	/												
	TP7 2.0 - 2.2				J															
	TP5 0.0 - 0.1				J, Z		/	/			/	/	/							
	TP5 0.4 - 0.6				J, Z						/									
	TP5 0.9 - 1.0				J, Z		/	/			/									
	TP5 1.8 - 2.0				J															
	TP4 0.0 - 0.1				J, Z		/	/				/								
	TP4 0.5 - 0.6				J, Z		/	/	/	/			/							
	TP4 0.8 - 1.0				J															
	TP4 1.3 - 1.5				J															

RELINQUISHED BY		RECEIVED BY	
Name:	Date:	Name: PARSH	Date: 25/1/17
Coffey Environments	Time:	Company: EUROFINS	Time: 11:00 am
Name:	Date:	Name:	Date:
Company:	Time:	Company:	Time:

Sample Receipt Advice: (Lab Use Only)

- All Samples Recieved in Good Condition ☐
- All Documentation is in Proper Order ☐
- Samples Received Properly Chilled ☐
- Lab. Ref/Batch No.

***Container Type & Preservation Codes:** **P** - Plastic, **G**- Glass Bottle, **J** - Glass Jar, **V**- Vial, **Z** - Ziplock Bag, **N** - Nitric Acid Preserved, **C** - Hydrochloric Acid Preserved, **S** - Sulphuric Acid Preserved, **I** - Ice, **ST** - Sodium Thiosulfate, **NP** - No Preservative, **OP** - Other Preservative

GOWANS PRINTING (02) 9755 3545

Project No.: Sydney Alexandria School

Project Name: Alexandria School

Laboratory:

Sampler's Name:

Project Manager:

Special Instructions:

Relevant agreements: Eurofins COF_ENAUABTF00952AA_MSA1 ; ALS COF_ENAUABTF00952AA_MSA2 and SGS COF_ENAUABTF00952AA_MSA3

Analysis request section

Lab No.	Sample ID	Sample Date	Time	Matrix (Soil...etc)	Container Type & Preservative*	T-A-T (specify)	Suite B4	Metals MA	~~[illegible]~~	VOC	SVOC	Asbestos (F/A)	BTEX + C6-C9	OCP	PCB				NOTES
	TP3 0.0-0.1	23/1		Soil	J, Z		✓	✓		✓	✓		✓	✓					
	TP3 0.4-0.6				J, Z														
	TP3 0.9-1.0				J														
	TP3 1.2-1.3				J		✓	✓											
	DUP 01						✓	✓											
	DUP 02						✓	✓											
	DUP 03																		
	DUP 02A						✓	✓											forward to ACS
	TB1			water	2V							X							
	TS1			"	2V							X							
	TP6-ACM			Sheet	~~Sheet~~ Z														
	TP7-ACM				" "														
	APS-1				"						✓								
	TPS-ACM				"														
	HA02 0.0-0.1	24/1		Soil	Z, J		✓	✓			✓		✓	✓					
	HA04 0.0-0.1			"	"		✓	✓		✓	✓		✓						
	HA04 0.5-0.6			"	"														
	HA04 0.8-1.0			"	"		✓	✓											

RELINQUISHED BY		RECEIVED BY	
Name:	Date:	Name: PARISH	Date: 25/1/17
Coffey Environments	Time:	Company: EUROFINS	Time: 11:00 am
Name:	Date:	Name:	Date:
Company:	Time:	Company:	Time:

Sample Receipt Advice: (Lab Use Only)

- All Samples Recieved in Good Condition ☐
- All Documentation is in Proper Order ☐
- Samples Received Properly Chilled ☐
- Lab. Ref/Batch No.

*Container Type & Preservation Codes: **P** - Plastic, **G**- Glass Bottle, **J** - Glass Jar, **V**- Vial, **Z** - Ziplock Bag, **N** - Nitric Acid Preserved, **C** - Hydrochloric Acid Preserved, **S** - Sulphuric Acid Preserved, **I** - Ice, **ST** - Sodium Thiosulfate, **NP** - No Preservative, **OP** - Other Preservative

GOWANS PRINTING (02) 9755 3545

Project Name: Sydney Alexandria

Laboratory:

Sampler's Name:

Project Manager:

Special Instructions:

Relevant agreements: Eurofins COF_ENAUABTF00952AA_MSA1 ; ALS COF_ENAUABTF00952AA_MSA2 and SGS COF_ENAUABTF00952AA_MSA3

Analysis Request Section

Lab No.	Sample ID	Sample Date	Time	Matrix (Soil...etc)	Container Type & Preservative*	T-A-T (specify)	SVOC	Metals MB	~~[illegible]~~	VOC	SVOC	ABN (PAH)	BTEX + C6-C9	OCP	PCB	NOTES
	HA05 0.0-0.1	24/1		Soil	Z, J											
	HA05 0.4-0.5	"		"	"											
	HA06 0.0-0.1	"		"	"											
	HA07 0.0-0.1	"		"	"											
	HA01 0.0-0.1	"		"	"											
	TB2	"		Water	2V							XX				
	TS2	"		"	2V											
	Rinsate	"		"	2V, 1G, 2P											
	DUP 04	"		Soil	J											

RELINQUISHED BY		RECEIVED BY	
Name: MR	Date: 25/1	Name: MARGM	Date: 25/1/17
Coffey Environments	Time:	Company: EUROFINS	Time: 11:00am
Name:	Date:	Name:	Date:
Company:	Time:	Company:	Time:

Sample Receipt Advice: (Lab Use Only)

- All Samples Recieved in Good Condition ☐
- All Documentation is in Proper Order ☐
- Samples Received Properly Chilled ☐
- Lab. Ref/Batch No.

***Container Type & Preservation Codes:** **P** - Plastic, **G**- Glass Bottle, **J** - Glass Jar, **V**- Vial, **Z** - Ziplock Bag, **N** - Nitric Acid Preserved, **C** - Hydrochloric Acid Preserved, **S** - Sulphuric Acid Preserved, **I** - Ice, **ST** - Sodium Thiosulfate, **NP** - No Preservative, **OP** - Other Preservative

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NATA # 1261 Site # 18217

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com web : www.eurofins.com.au

Sample Receipt Advice

Company name:	**Coffey Geotechnics Pty Ltd Chatswood**
Contact name:	Alex Ructtinger
Project name:	ALEXANDRIA SCHOOL
Project ID:	754-SYDEN199382
COC number:	Not provided
Turn around time:	5 Day
Date/Time received:	Jan 27, 2017 12:51 PM
Eurofins | mgt reference:	**531768**

Sample information

- ☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : .7 degrees Celsius.
- ☑ All samples have been received as described on the above COC.
- ☑ COC has been completed correctly.
- ☑ Attempt to chill was evident.
- ☑ Appropriately preserved sample containers have been used.
- ☑ All samples were received in good condition.
- ☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ☑ Appropriate sample containers have been used.
- ☑ Sample containers for volatile analysis received with zero headspace.
- ☒ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Contact notes

If you have any questions with respect to these samples please contact:

Nibha Vaidya on Phone : +61 (2) 9900 8400 or by e.mail: NibhaVaidya@eurofins.com

Results will be delivered electronically via e.mail to Alex Ructtinger - alexander.ructtinger@coffey.com.

Note: A copy of these results will also be delivered to the general Coffey Geotechnics Pty Ltd Chatswood email address.

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Company Name: Coffey Geotechnics Pty Ltd Chatswood
Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: ALEXANDRIA SCHOOL
Project ID: 754-SYDEN199382

Order No.:
Report #: 531768
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: Jan 27, 2017 12:51 PM
Due: Feb 3, 2017
Priority: 5 Day
Contact Name: Alex Ructtinger

Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail						Asbestos Absence /Presence	HOLD	TRH C6-C9	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Volatile Organics	Moisture Set	Semivolatile Organics	Eurofins | mgt Suite B4
Melbourne Laboratory - NATA Site # 1254 & 14271																
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																
Perth Laboratory - NATA Site # 18217																
External Laboratory																
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**											
1	TP8 0.0-0.1	Jan 23, 2017		Soil	S17-Ja15600				X		X			X		X
2	TP8 0.4-0.6	Jan 23, 2017		Soil	S17-Ja15601					X	X			X		X
3	TP8 0.8-1.0	Jan 23, 2017		Soil	S17-Ja15602		X									
4	TP6 0.0-0.1	Jan 23, 2017		Soil	S17-Ja15603				X	X	X			X		X
5	TP6 0.4-0.6	Jan 23, 2017		Soil	S17-Ja15604						X			X		X
6	TP6 0.9-1.0	Jan 23, 2017		Soil	S17-Ja15605		X									
7	TP7 0.0-0.1	Jan 23, 2017		Soil	S17-Ja15606	X			X		X		X	X	X	X
8	TP7 0.4-0.6	Jan 23, 2017		Soil	S17-Ja15607		X									
9	TP7 0.9-1.0	Jan 23, 2017		Soil	S17-Ja15608						X			X		X

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Company Name: Coffey Geotechnics Pty Ltd Chatswood
Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
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Project Name: ALEXANDRIA SCHOOL
Project ID: 754-SYDEN199382

Order No.:
Report #: 531768
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: Jan 27, 2017 12:51 PM
Due: Feb 3, 2017
Priority: 5 Day
Contact Name: Alex Ructtinger

Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail						Asbestos Absence / Presence	HOLD	TRH C6-C9	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Volatile Organics	Moisture Set	Semivolatile Organics	Eurofins | mgt Suite B4
Melbourne Laboratory - NATA Site # 1254 & 14271																
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																
Perth Laboratory - NATA Site # 18217																
10	TP7 2.0-2.2	Jan 23, 2017		Soil	S17-Ja15609		X									
11	TP5 0.0-0.1	Jan 23, 2017		Soil	S17-Ja15610	X			X	X	X			X		X
12	TP5 0.4-0.6	Jan 23, 2017		Soil	S17-Ja15611	X										
13	TP5 0.9-1.0	Jan 23, 2017		Soil	S17-Ja15612	X					X			X		X
14	TP5 1.8-2.0	Jan 23, 2017		Soil	S17-Ja15613		X									
15	TP4 0.0-0.1	Jan 23, 2017		Soil	S17-Ja15614				X		X			X		X
16	TP4 0.5-0.6	Jan 23, 2017		Soil	S17-Ja15615					X	X		X	X	X	X
17	TP4 0.8-1.0	Jan 23, 2017		Soil	S17-Ja15616		X									
18	TP4 1.3-1.5	Jan 23, 2017		Soil	S17-Ja15617		X									
19	TP3 0.0-0.1	Jan 23, 2017		Soil	S17-Ja15618				X	X	X		X	X	X	X
20	TP3 0.4-0.6	Jan 23, 2017		Soil	S17-Ja15619						X			X		X
21	TP3 0.9-1.0	Jan 23, 2017		Soil	S17-Ja15620		X									

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NATA # 1261
Site # 18217

Company Name: Coffey Geotechnics Pty Ltd Chatswood
Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: ALEXANDRIA SCHOOL
Project ID: 754-SYDEN199382

Order No.:
Report #: 531768
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: Jan 27, 2017 12:51 PM
Due: Feb 3, 2017
Priority: 5 Day
Contact Name: Alex Ructtinger

Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail						Asbestos Absence / Presence	HOLD	TRH C6-C9	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Volatile Organics	Moisture Set	Semivolatile Organics	Eurofins | mgt Suite B4
Melbourne Laboratory - NATA Site # 1254 & 14271																
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																
Perth Laboratory - NATA Site # 18217																
22	TP3 1.2-1.3	Jan 23, 2017		Soil	S17-Ja15621						X			X		X
23	DUP 01	Jan 23, 2017		Soil	S17-Ja15622						X			X		X
24	DUP 02	Jan 23, 2017		Soil	S17-Ja15623						X			X		X
25	DUP 03	Jan 23, 2017		Soil	S17-Ja15624		X									
26	TB1	Jan 23, 2017		Water	S17-Ja15625			X				X				
27	TS1	Jan 23, 2017		Water	S17-Ja15626			X				X				
28	TP6-ACM	Jan 23, 2017		Other	S17-Ja15627		X									
29	TP7-ACM	Jan 23, 2017		Other	S17-Ja15628		X									
30	APS-1	Jan 23, 2017		Other	S17-Ja15629	X										
31	TPS-ACM	Jan 23, 2017		Other	S17-Ja15630		X									
32	HA02 0.0-0.1	Jan 24, 2017		Soil	S17-Ja15631	X			X	X	X			X		X
33	HA04 0.0-0.1	Jan 24, 2017		Soil	S17-Ja15632	X			X		X		X	X	X	X

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Site # 18217

Company Name: Coffey Geotechnics Pty Ltd Chatswood
Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: ALEXANDRIA SCHOOL
Project ID: 754-SYDEN199382

Order No.:
Report #: 531768
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: Jan 27, 2017 12:51 PM
Due: Feb 3, 2017
Priority: 5 Day
Contact Name: Alex Ructtinger

Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail						Asbestos Absence / Presence	HOLD	TRH C6-C9	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Volatile Organics	Moisture Set	Semivolatile Organics	Eurofins | mgt Suite B4
Melbourne Laboratory - NATA Site # 1254 & 14271																
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																
Perth Laboratory - NATA Site # 18217																
34	HA04 0.5-0.6	Jan 24, 2017		Soil	S17-Ja15633		X									
35	HA04 0.8-1.0	Jan 24, 2017		Soil	S17-Ja15634						X			X		X
36	HA05 0.0-0.1	Jan 24, 2017		Soil	S17-Ja15635				X		X			X		X
37	HA05 0.4-0.5	Jan 24, 2017		Soil	S17-Ja15636						X			X		X
38	HA06 0.0-0.1	Jan 24, 2017		Soil	S17-Ja15637				X		X			X		X
39	HA07 0.0-0.1	Jan 24, 2017		Soil	S17-Ja15638	X			X		X			X		X
40	HA01 0.0-0.1	Jan 24, 2017		Soil	S17-Ja15639				X	X	X		X	X	X	X
41	TB2	Jan 24, 2017		Water	S17-Ja15640			X				X				
42	TS2	Jan 24, 2017		Water	S17-Ja15641			X				X				
43	RINSATE	Jan 24, 2017		Water	S17-Ja15642						X			X		X
44	DUP 04	Jan 24, 2017		Soil	S17-Ja15643						X			X		X
Test Counts						8	13	4	12	7	25	4	5	25	5	25

Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Coffey Geotechnics Pty Ltd Chatswood
Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Attention:	Alex Ructtinger
Report	531768-AID
Project Name	ALEXANDRIA SCHOOL
Project ID	754-SYDEN199382
Received Date	Jan 27, 2017
Date Reported	Feb 03, 2017

Methodology:

Asbestos ID	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. Bulk samples include building materials, soils and ores.
Subsampling Soil Samples	The whole sample submitted is first dried and then sieved through a 10mm sieve followed by a 2mm sieve. All fibrous matter viz greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) Iron ores - Sampling and Sample preparation procedures is employed. Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis in accordance with AS 4964-2004.
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated and where required interfering organic fibres or matter may be removed by treating the sample for several hours at a temperature not exceeding 400 ± 30°C. The resultant material is then ground and examined in accordance with AS 4964-2004.
Limit of Reporting	The nominal detection limit of the AS4964 method is around 0.01%. The examination of large sample sizes (at least 500 ml is recommended) may improve the likelihood of identifying asbestos material in the greater than 2 mm fraction. The NEPM screening level of 0.001% w/w asbestos in soil for FA and AF (i.e. non-bonded/friable asbestos) only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres. NOTE: NATA News, September 2011 – page 34, states, “Weighing of fibres is problematic and can lead to loss of fibres and potential exposure for laboratory analysts. To request laboratories to report information which is outside the scope of AS 4964-2004 and the scope of their accreditation is misleading and is most unwise” therefore such values reported are outside the scope of Eurofins | mgt NATA accreditation as designated by an asterisk.

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NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Project Name ALEXANDRIA SCHOOL
Project ID 754-SYDEN199382
Date Sampled Jan 23, 2017 to Jan 24, 2017
Report 531768-AID

Client Sample ID	Eurofins | mgt Sample No.	Date Sampled	Sample Description	Result
TP7 0.0-0.1	17-Ja15606	Jan 23, 2017	Approximate Sample 159g Sample consisted of: Brown coarse grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
TP5 0.0-0.1	17-Ja15610	Jan 23, 2017	Approximate Sample 131g Sample consisted of: Brown coarse grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
TP5 0.4-0.6	17-Ja15611	Jan 23, 2017	Approximate Sample 229g Sample consisted of: Brown coarse grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
TP5 0.9-1.0	17-Ja15612	Jan 23, 2017	Approximate Sample 186g Sample consisted of: Brown coarse grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
APS-1	17-Ja15629	Jan 23, 2017	Approximate Sample 3g / 35x25x4mm Sample consisted of: Grey compressed fibre cement material	Chrysotile asbestos detected.
HA02 0.0-0.1	17-Ja15631	Jan 24, 2017	Approximate Sample 96g Sample consisted of: Brown coarse grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
HA04 0.0-0.1	17-Ja15632	Jan 24, 2017	Approximate Sample 60g Sample consisted of: Brown coarse grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.
HA07 0.0-0.1	17-Ja15638	Jan 24, 2017	Approximate Sample 150g Sample consisted of: Brown coarse grain soil and rocks	No asbestos detected. Organic fibre detected. No respirable fibres detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Jan 27, 2017	Indefinite

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Company Name: Coffey Geotechnics Pty Ltd Chatswood
Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
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NSW 2067

Project Name: ALEXANDRIA SCHOOL
Project ID: 754-SYDEN199382

Order No.:
Report #: 531768
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: Jan 27, 2017 12:51 PM
Due: Feb 3, 2017
Priority: 5 Day
Contact Name: Alex Ructtinger

Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail						Asbestos Absence / Presence	HOLD	TRH C6-C9	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Volatile Organics	Moisture Set	Semivolatile Organics	Eurofins | mgt Suite B4
Melbourne Laboratory - NATA Site # 1254 & 14271																
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																
Perth Laboratory - NATA Site # 18217																
External Laboratory																
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**											
1	TP8 0.0-0.1	Jan 23, 2017		Soil	S17-Ja15600				X		X			X		X
2	TP8 0.4-0.6	Jan 23, 2017		Soil	S17-Ja15601					X	X			X		X
3	TP8 0.8-1.0	Jan 23, 2017		Soil	S17-Ja15602		X									
4	TP6 0.0-0.1	Jan 23, 2017		Soil	S17-Ja15603				X	X	X			X		X
5	TP6 0.4-0.6	Jan 23, 2017		Soil	S17-Ja15604						X			X		X
6	TP6 0.9-1.0	Jan 23, 2017		Soil	S17-Ja15605		X									
7	TP7 0.0-0.1	Jan 23, 2017		Soil	S17-Ja15606	X			X		X		X	X	X	X
8	TP7 0.4-0.6	Jan 23, 2017		Soil	S17-Ja15607		X									
9	TP7 0.9-1.0	Jan 23, 2017		Soil	S17-Ja15608						X			X		X

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Melbourne Laboratory - NATA Site # 1254 & 14271																
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																
Perth Laboratory - NATA Site # 18217																
10	TP7 2.0-2.2	Jan 23, 2017		Soil	S17-Ja15609		X									
11	TP5 0.0-0.1	Jan 23, 2017		Soil	S17-Ja15610	X			X	X	X			X		X
12	TP5 0.4-0.6	Jan 23, 2017		Soil	S17-Ja15611	X										
13	TP5 0.9-1.0	Jan 23, 2017		Soil	S17-Ja15612	X					X			X		X
14	TP5 1.8-2.0	Jan 23, 2017		Soil	S17-Ja15613		X									
15	TP4 0.0-0.1	Jan 23, 2017		Soil	S17-Ja15614				X		X			X		X
16	TP4 0.5-0.6	Jan 23, 2017		Soil	S17-Ja15615					X	X		X	X	X	X
17	TP4 0.8-1.0	Jan 23, 2017		Soil	S17-Ja15616		X									
18	TP4 1.3-1.5	Jan 23, 2017		Soil	S17-Ja15617		X									
19	TP3 0.0-0.1	Jan 23, 2017		Soil	S17-Ja15618				X	X	X		X	X	X	X
20	TP3 0.4-0.6	Jan 23, 2017		Soil	S17-Ja15619						X			X		X
21	TP3 0.9-1.0	Jan 23, 2017		Soil	S17-Ja15620		X									

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NSW 2067

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Due: Feb 3, 2017
Priority: 5 Day
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Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail						Asbestos Absence / Presence	HOLD	TRH C6-C9	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Volatile Organics	Moisture Set	Semivolatile Organics	Eurofins | mgt Suite B4
Melbourne Laboratory - NATA Site # 1254 & 14271																
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																
Perth Laboratory - NATA Site # 18217																
22	TP3 1.2-1.3	Jan 23, 2017		Soil	S17-Ja15621						X			X		X
23	DUP 01	Jan 23, 2017		Soil	S17-Ja15622						X			X		X
24	DUP 02	Jan 23, 2017		Soil	S17-Ja15623						X			X		X
25	DUP 03	Jan 23, 2017		Soil	S17-Ja15624		X									
26	TB1	Jan 23, 2017		Water	S17-Ja15625			X				X				
27	TS1	Jan 23, 2017		Water	S17-Ja15626			X				X				
28	TP6-ACM	Jan 23, 2017		Other	S17-Ja15627		X									
29	TP7-ACM	Jan 23, 2017		Other	S17-Ja15628		X									
30	APS-1	Jan 23, 2017		Other	S17-Ja15629	X										
31	TPS-ACM	Jan 23, 2017		Other	S17-Ja15630		X									
32	HA02 0.0-0.1	Jan 24, 2017		Soil	S17-Ja15631	X			X	X	X			X		X
33	HA04 0.0-0.1	Jan 24, 2017		Soil	S17-Ja15632	X			X		X		X	X	X	X

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Melbourne Laboratory - NATA Site # 1254 & 14271																
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																
Perth Laboratory - NATA Site # 18217																
34	HA04 0.5-0.6	Jan 24, 2017		Soil	S17-Ja15633		X									
35	HA04 0.8-1.0	Jan 24, 2017		Soil	S17-Ja15634						X			X		X
36	HA05 0.0-0.1	Jan 24, 2017		Soil	S17-Ja15635				X		X			X		X
37	HA05 0.4-0.5	Jan 24, 2017		Soil	S17-Ja15636						X			X		X
38	HA06 0.0-0.1	Jan 24, 2017		Soil	S17-Ja15637				X		X			X		X
39	HA07 0.0-0.1	Jan 24, 2017		Soil	S17-Ja15638	X			X		X			X		X
40	HA01 0.0-0.1	Jan 24, 2017		Soil	S17-Ja15639				X	X	X		X	X	X	X
41	TB2	Jan 24, 2017		Water	S17-Ja15640			X				X				
42	TS2	Jan 24, 2017		Water	S17-Ja15641			X				X				
43	RINSATE	Jan 24, 2017		Water	S17-Ja15642						X					X
44	DUP 04	Jan 24, 2017		Soil	S17-Ja15643						X			X		X
Test Counts						8	13	4	12	7	25	4	5	24	5	25

Internal Quality Control Review and Glossary

General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Advice.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
COC	Chain of custody
SRA	Sample Receipt Advice
ISO	International Stardards Organisation
AS	Australian Standards
WA DOH	Western Australia Department of Health
NOHSC	National Occupational Health and Safety Commission
ACM	Bonded asbestos-containing material means any material containing more than 1% asbestos and comprises asbestos-containing-material which is in sound condition, although possibly broken or fragmented, and where the asbestos is bound in a matrix such as cement or resin. Common examples of ACM include but are not limited to: pipe and boiler insulation, sprayed-on fireproofing, troweled-on acoustical plaster, floor tile and mastic, floor linoleum, transite shingles, roofing materials, wall and ceiling plaster, ceiling tiles, and gasket materials. This term is restricted to material that cannot pass a 7 mm x 7 mm sieve. This sieve size is selected because it approximates the thickness of common asbestos cement sheeting and for fragments to be smaller than this would imply a high degree of damage and hence potential for fibre release.
FA	FA comprises friable asbestos material and includes severely weathered cement sheet, insulation products and woven asbestos material. This type of friable asbestos is defined here as asbestos material that is in a degraded condition such that it can be broken or crumbled by hand pressure. This material is typically unbonded or was previously bonded and is now significantly degraded (crumbling).
PACM	Presumed Asbestos-Containing Material means thermal system insulation and surfacing material found in buildings, vessels, and vessel sections constructed no later than 1980 that are assumed to contain greater than one percent asbestos but have not been sampled or analyzed to verify or negate the presence of asbestos.
AF	Asbestos fines (AF) are defined as free fibres, or fibre bundles, smaller than 7mm. It is the free fibres which present the greatest risk to human health, although very small fibres (< 5 microns in length) are not considered to be such a risk. AF also includes small fragments of bonded ACM that pass through a 7 mm x 7 mm sieve. (Note that for bonded ACM fragments to pass through a 7 mm x 7 mm sieve implies a substatntial degree of damage which increases the potential for fibre release.)
AC	Asbestos cement means a mixture of cement and asbestos fibres (typically 90:10 ratios).

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N/A	Not applicable

Authorised by:

Nibha Vaidya Senior Analyst - Asbestos(NSW)

Glenn Jackson
National Operations Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Uncertainty data is available on request

Eurofins | mgt shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins | mgt be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

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Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Coffey Geotechnics Pty Ltd Chatswood
Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Attention: **Alex Ructtinger**

Report **531768-S**
Project name ALEXANDRIA SCHOOL
Project ID 754-SYDEN199382
Received Date Jan 27, 2017

Client Sample ID			**TP8 0.0-0.1**	**TP8 0.4-0.6**	**TP6 0.0-0.1**	**TP6 0.4-0.6**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S17-Ja15600**	**S17-Ja15601**	**S17-Ja15603**	**S17-Ja15604**
Date Sampled			**Jan 23, 2017**	**Jan 23, 2017**	**Jan 23, 2017**	**Jan 23, 2017**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	52
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	< 50	52
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	68	65	66	67
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	2.0	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	2.2	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	2.5	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	1.7	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	1.4	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	1.9	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	1.2	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	0.9	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	1.4	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	4.3	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	0.8	< 0.5	< 0.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP8 0.0-0.1 Soil S17-Ja15600 Jan 23, 2017	TP8 0.4-0.6 Soil S17-Ja15601 Jan 23, 2017	TP6 0.0-0.1 Soil S17-Ja15603 Jan 23, 2017	TP6 0.4-0.6 Soil S17-Ja15604 Jan 23, 2017
Polycyclic Aromatic Hydrocarbons						
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	1.0	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	3.7	< 0.5	0.5
Total PAH*	0.5	mg/kg	< 0.5	18.3	< 0.5	0.5
2-Fluorobiphenyl (surr.)	1	%	102	101	101	102
p-Terphenyl-d14 (surr.)	1	%	128	120	120	123
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	-
a-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
b-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
d-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
Methoxychlor	0.2	mg/kg	< 0.2	-	< 0.2	-
Toxaphene	1	mg/kg	< 1	-	< 1	-
Dibutylchlorendate (surr.)	1	%	106	-	108	-
Tetrachloro-m-xylene (surr.)	1	%	104	-	99	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1232	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1242	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1248	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1254	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1260	0.5	mg/kg	-	< 0.5	< 0.5	-
Total PCB*	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibutylchlorendate (surr.)	1	%	-	68	108	-
Tetrachloro-m-xylene (surr.)	1	%	-	INT	99	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100

Client Sample ID			TP8 0.0-0.1	TP8 0.4-0.6	TP6 0.0-0.1	TP6 0.4-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			S17-Ja15600	S17-Ja15601	S17-Ja15603	S17-Ja15604
Date Sampled			Jan 23, 2017	Jan 23, 2017	Jan 23, 2017	Jan 23, 2017
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	2.4	< 2	2.1	9.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	7.7	< 5	6.6	18
Copper	5	mg/kg	7.3	17	6.2	54
Lead	5	mg/kg	14	34	12	79
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	7.0	< 5	10
Zinc	5	mg/kg	22	58	23	98
% Moisture	1	%	5.0	23	18	7.0

Client Sample ID			TP7 0.0-0.1	TP7 0.9-1.0	TP5 0.0-0.1	TP5 0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			S17-Ja15606	S17-Ja15608	S17-Ja15610	S17-Ja15612
Date Sampled			Jan 23, 2017	Jan 23, 2017	Jan 23, 2017	Jan 23, 2017
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	52	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	52	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	99	64	67	64
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP7 0.0-0.1 Soil S17-Ja15606 Jan 23, 2017	TP7 0.9-1.0 Soil S17-Ja15608 Jan 23, 2017	TP5 0.0-0.1 Soil S17-Ja15610 Jan 23, 2017	TP5 0.9-1.0 Soil S17-Ja15612 Jan 23, 2017
Volatile Organics						
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	-
Allyl chloride	0.5	mg/kg	< 0.5	-	-	-
Benzene	0.1	mg/kg	< 0.1	-	-	-
Bromobenzene	0.5	mg/kg	< 0.5	-	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromoform	0.5	mg/kg	< 0.5	-	-	-
Bromomethane	0.5	mg/kg	< 0.5	-	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Chloroethane	0.5	mg/kg	< 0.5	-	-	-
Chloroform	0.5	mg/kg	< 0.5	-	-	-
Chloromethane	0.5	mg/kg	< 0.5	-	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
Iodomethane	0.5	mg/kg	< 0.5	-	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Styrene	0.5	mg/kg	< 0.5	-	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Trichloroethene	0.5	mg/kg	< 0.5	-	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	-
Xylenes - Total	0.3	mg/kg	< 0.3	-	-	-
Fluorobenzene (surr.)	1	%	110	-	-	-
4-Bromofluorobenzene (surr.)	1	%	99	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	1.3	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	1.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.8	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP7 0.0-0.1 Soil S17-Ja15606 Jan 23, 2017	TP7 0.9-1.0 Soil S17-Ja15608 Jan 23, 2017	TP5 0.0-0.1 Soil S17-Ja15610 Jan 23, 2017	TP5 0.9-1.0 Soil S17-Ja15612 Jan 23, 2017
Polycyclic Aromatic Hydrocarbons						
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	0.9	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	1.0	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	1.1	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	0.7	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	0.6	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	0.7	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	1.5	< 0.5	0.6
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	0.6	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	1.5	< 0.5	0.7
Total PAH*	0.5	mg/kg	< 0.5	9.1	< 0.5	1.3
2-Fluorobiphenyl (surr.)	1	%	99	93	95	96
p-Terphenyl-d14 (surr.)	1	%	98	115	118	118
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	-
a-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
b-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
d-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
Methoxychlor	0.2	mg/kg	< 0.2	-	< 0.2	-
Toxaphene	1	mg/kg	< 1	-	< 1	-
Dibutylchlorendate (surr.)	1	%	77	-	86	-
Tetrachloro-m-xylene (surr.)	1	%	103	-	105	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1232	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1242	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1248	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1254	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1260	0.5	mg/kg	-	-	< 0.5	-

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Polychlorinated Biphenyls						
Total PCB*	0.5	mg/kg	-	-	< 0.5	-
Dibutylchlorendate (surr.)	1	%	-	-	86	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	105	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Semivolatile Organics						
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	-	-	-
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	-
1-Chloronaphthalene	0.5	mg/kg	< 0.5	-	-	-
1-Naphthylamine	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.3.4-Tetrachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.3.5-Tetrachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.4.5-Tetrachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Chloronaphthalene	0.5	mg/kg	< 0.5	-	-	-
2-Chlorophenol	0.5	mg/kg	< 0.5	-	-	-
2-Methylnaphthalene	0.5	mg/kg	< 0.5	-	-	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	-	-	-
2-Naphthylamine	0.5	mg/kg	< 0.5	-	-	-
2-Nitroaniline	1	mg/kg	< 1	-	-	-
2-Nitrophenol	1	mg/kg	< 1	-	-	-
2-Picoline	0.5	mg/kg	< 0.5	-	-	-
2.3.4.6-Tetrachlorophenol	0.5	mg/kg	< 0.5	-	-	-
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	-	-	-
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	-	-	-
2.4-Dinitrophenol	5	mg/kg	< 5	-	-	-
2.4-Dinitrotoluene	1	mg/kg	< 1	-	-	-
2.4.5-Trichlorophenol	1	mg/kg	< 1	-	-	-
2.4.6-Trichlorophenol	1.0	mg/kg	< 1	-	-	-
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	-	-	-
2.6-Dinitrotoluene	1	mg/kg	< 1	-	-	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	-	-	-
3-Methylcholanthrene	0.5	mg/kg	< 0.5	-	-	-
3.3'-Dichlorobenzidine	0.5	mg/kg	< 0.5	-	-	-
4-Aminobiphenyl	0.5	mg/kg	< 0.5	-	-	-
4-Bromophenyl phenyl ether	0.5	mg/kg	< 0.5	-	-	-
4-Chloro-3-methylphenol	1.0	mg/kg	< 1	-	-	-
4-Chlorophenyl phenyl ether	0.5	mg/kg	< 0.5	-	-	-
4-Nitrophenol	5	mg/kg	< 5	-	-	-
4.4'-DDD	0.5	mg/kg	< 0.5	-	-	-

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Semivolatile Organics						
4.4'-DDE	0.5	mg/kg	< 0.5	-	-	-
4.4'-DDT	1	mg/kg	< 1	-	-	-
7.12-Dimethylbenz(a)anthracene	0.5	mg/kg	< 0.5	-	-	-
a-BHC	0.5	mg/kg	< 0.5	-	-	-
Acenaphthene	0.5	mg/kg	< 0.5	-	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	-
Acetophenone	0.5	mg/kg	< 0.5	-	-	-
Aldrin	0.5	mg/kg	< 0.5	-	-	-
Aniline	0.5	mg/kg	< 0.5	-	-	-
Anthracene	0.5	mg/kg	< 0.5	-	-	-
b-BHC	0.5	mg/kg	< 0.5	-	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Benzyl chloride	0.5	mg/kg	< 0.5	-	-	-
Bis(2-chloroethoxy)methane	0.5	mg/kg	< 0.5	-	-	-
Bis(2-chloroisopropyl)ether	0.5	mg/kg	< 0.5	-	-	-
Bis(2-ethylhexyl)phthalate	5	mg/kg	< 5	-	-	-
Butyl benzyl phthalate	0.5	mg/kg	< 0.5	-	-	-
Chrysene	0.5	mg/kg	< 0.5	-	-	-
d-BHC	0.5	mg/kg	< 0.5	-	-	-
Di-n-butyl phthalate	0.5	mg/kg	< 0.5	-	-	-
Di-n-octyl phthalate	0.5	mg/kg	< 0.5	-	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	-	-
Dibenz(a.j)acridine	0.5	mg/kg	< 0.5	-	-	-
Dibenzofuran	0.5	mg/kg	< 0.5	-	-	-
Dieldrin	0.5	mg/kg	< 0.5	-	-	-
Diethyl phthalate	0.5	mg/kg	< 0.5	-	-	-
Dimethyl phthalate	0.5	mg/kg	< 0.5	-	-	-
Dimethylaminoazobenzene	0.5	mg/kg	< 0.5	-	-	-
Diphenylamine	0.5	mg/kg	< 0.5	-	-	-
Endosulfan I	0.5	mg/kg	< 0.5	-	-	-
Endosulfan II	0.5	mg/kg	< 0.5	-	-	-
Endosulfan sulphate	0.5	mg/kg	< 0.5	-	-	-
Endrin	0.5	mg/kg	< 0.5	-	-	-
Endrin aldehyde	0.5	mg/kg	< 0.5	-	-	-
Endrin ketone	0.5	mg/kg	< 0.5	-	-	-
Fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Fluorene	0.5	mg/kg	< 0.5	-	-	-
g-BHC (Lindane)	0.5	mg/kg	< 0.5	-	-	-
Heptachlor	0.5	mg/kg	< 0.5	-	-	-
Heptachlor epoxide	0.5	mg/kg	< 0.5	-	-	-
Hexachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Hexachlorobutadiene	0.5	mg/kg	< 0.5	-	-	-
Hexachlorocyclopentadiene	1	mg/kg	< 1	-	-	-
Hexachloroethane	0.5	mg/kg	< 0.5	-	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			TP7 0.0-0.1	TP7 0.9-1.0	TP5 0.0-0.1	TP5 0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			S17-Ja15606	S17-Ja15608	S17-Ja15610	S17-Ja15612
Date Sampled			Jan 23, 2017	Jan 23, 2017	Jan 23, 2017	Jan 23, 2017
Test/Reference	LOR	Unit				
Semivolatile Organics						
Methoxychlor	0.5	mg/kg	< 0.5	-	-	-
N-Nitrosodibutylamine	0.5	mg/kg	< 0.5	-	-	-
N-Nitrosodipropylamine	0.5	mg/kg	< 0.5	-	-	-
N-Nitrosopiperidine	0.5	mg/kg	< 0.5	-	-	-
Naphthalene	0.5	mg/kg	< 0.5	-	-	-
Nitrobenzene	0.5	mg/kg	< 0.5	-	-	-
Pentachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Pentachloronitrobenzene	0.5	mg/kg	< 0.5	-	-	-
Pentachlorophenol	1.0	mg/kg	< 1	-	-	-
Phenanthrene	0.5	mg/kg	< 0.5	-	-	-
Phenol	0.5	mg/kg	< 0.5	-	-	-
Pronamide	0.5	mg/kg	< 0.5	-	-	-
Pyrene	0.5	mg/kg	< 0.5	-	-	-
Trifluralin	0.5	mg/kg	< 0.5	-	-	-
Phenol-d6 (surr.)	1	%	96	-	-	-
Nitrobenzene-d5 (surr.)	1	%	98	-	-	-
2-Fluorobiphenyl (surr.)	1	%	99	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	2.4	4.3	3.4	3.2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	7.1	7.0	9.6	5.3
Copper	5	mg/kg	8.9	30	25	23
Lead	5	mg/kg	12	75	81	99
Mercury	0.1	mg/kg	< 0.1	0.1	< 0.1	0.1
Nickel	5	mg/kg	< 5	< 5	5.4	< 5
Zinc	5	mg/kg	28	130	100	86
% Moisture	1	%	8.5	13	10	16

Client Sample ID			TP4 0.0-0.1	TP4 0.5-0.6	TP3 0.0-0.1	TP3 0.4-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			S17-Ja15614	S17-Ja15615	S17-Ja15618	S17-Ja15619
Date Sampled			Jan 23, 2017	Jan 23, 2017	Jan 23, 2017	Jan 23, 2017
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	78
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	< 50	78
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	66	96	98	63

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP4 0.0-0.1 Soil S17-Ja15614 Jan 23, 2017	TP4 0.5-0.6 Soil S17-Ja15615 Jan 23, 2017	TP3 0.0-0.1 Soil S17-Ja15618 Jan 23, 2017	TP3 0.4-0.6 Soil S17-Ja15619 Jan 23, 2017
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	< 0.5	-
Allyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Bromobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromoform	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	< 0.5	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloroform	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibromomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Iodomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	-
Styrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	< 0.5	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP4 0.0-0.1 Soil S17-Ja15614 Jan 23, 2017	TP4 0.5-0.6 Soil S17-Ja15615 Jan 23, 2017	TP3 0.0-0.1 Soil S17-Ja15618 Jan 23, 2017	TP3 0.4-0.6 Soil S17-Ja15619 Jan 23, 2017
Volatile Organics						
Trichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Xylenes - Total	0.3	mg/kg	-	< 0.3	< 0.3	-
Fluorobenzene (surr.)	1	%	-	109	111	-
4-Bromofluorobenzene (surr.)	1	%	-	96	98	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.9
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	2.1
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	2.4
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.3
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.4
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.6
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.9
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.8
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.0
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	0.8	< 0.5	1.9
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.7
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	0.5	< 0.5	0.7
Pyrene	0.5	mg/kg	< 0.5	0.8	< 0.5	1.9
Total PAH*	0.5	mg/kg	< 0.5	2.1	< 0.5	12.2
2-Fluorobiphenyl (surr.)	1	%	92	99	94	89
p-Terphenyl-d14 (surr.)	1	%	108	98	93	111
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	-
a-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
b-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
d-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP4 0.0-0.1 Soil S17-Ja15614 Jan 23, 2017	TP4 0.5-0.6 Soil S17-Ja15615 Jan 23, 2017	TP3 0.0-0.1 Soil S17-Ja15618 Jan 23, 2017	TP3 0.4-0.6 Soil S17-Ja15619 Jan 23, 2017
Organochlorine Pesticides						
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
Methoxychlor	0.2	mg/kg	< 0.2	-	< 0.2	-
Toxaphene	1	mg/kg	< 1	-	< 1	-
Dibutylchlorendate (surr.)	1	%	111	-	84	-
Tetrachloro-m-xylene (surr.)	1	%	108	-	99	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1232	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1242	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1248	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1254	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1260	0.5	mg/kg	-	< 0.5	< 0.5	-
Total PCB*	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibutylchlorendate (surr.)	1	%	-	79	84	-
Tetrachloro-m-xylene (surr.)	1	%	-	INT	99	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	120
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Semivolatile Organics						
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	< 5	< 5	-
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	-
1-Chloronaphthalene	0.5	mg/kg	-	< 0.5	< 0.5	-
1-Naphthylamine	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.3-Trichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.3.4-Tetrachlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.3.5-Tetrachlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.4-Trichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.4.5-Tetrachlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3.5-Trichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Chloronaphthalene	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Chlorophenol	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Methylnaphthalene	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	< 0.2	< 0.2	-
2-Naphthylamine	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Nitroaniline	1	mg/kg	-	< 1	< 1	-
2-Nitrophenol	1	mg/kg	-	< 1	< 1	-
2-Picoline	0.5	mg/kg	-	< 0.5	< 0.5	-
2.3.4.6-Tetrachlorophenol	0.5	mg/kg	-	< 0.5	< 0.5	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP4 0.0-0.1 Soil S17-Ja15614 Jan 23, 2017	TP4 0.5-0.6 Soil S17-Ja15615 Jan 23, 2017	TP3 0.0-0.1 Soil S17-Ja15618 Jan 23, 2017	TP3 0.4-0.6 Soil S17-Ja15619 Jan 23, 2017
Semivolatile Organics						
2.4-Dichlorophenol	0.5	mg/kg	-	< 0.5	< 0.5	-
2.4-Dimethylphenol	0.5	mg/kg	-	< 0.5	< 0.5	-
2.4-Dinitrophenol	5	mg/kg	-	< 5	< 5	-
2.4-Dinitrotoluene	1	mg/kg	-	< 1	< 1	-
2.4.5-Trichlorophenol	1	mg/kg	-	< 1	< 1	-
2.4.6-Trichlorophenol	1.0	mg/kg	-	< 1	< 1	-
2.6-Dichlorophenol	0.5	mg/kg	-	< 0.5	< 0.5	-
2.6-Dinitrotoluene	1	mg/kg	-	< 1	< 1	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	< 0.4	< 0.4	-
3-Methylcholanthrene	0.5	mg/kg	-	< 0.5	< 0.5	-
3.3'-Dichlorobenzidine	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Aminobiphenyl	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Bromophenyl phenyl ether	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Chloro-3-methylphenol	1.0	mg/kg	-	< 1	< 1	-
4-Chlorophenyl phenyl ether	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Nitrophenol	5	mg/kg	-	< 5	< 5	-
4.4'-DDD	0.5	mg/kg	-	< 0.5	< 0.5	-
4.4'-DDE	0.5	mg/kg	-	< 0.5	< 0.5	-
4.4'-DDT	1	mg/kg	-	< 1	< 1	-
7.12-Dimethylbenz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
a-BHC	0.5	mg/kg	-	< 0.5	< 0.5	-
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	-
Acetophenone	0.5	mg/kg	-	< 0.5	< 0.5	-
Aldrin	0.5	mg/kg	-	< 0.5	< 0.5	-
Aniline	0.5	mg/kg	-	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
b-BHC	0.5	mg/kg	-	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Bis(2-chloroethoxy)methane	0.5	mg/kg	-	< 0.5	< 0.5	-
Bis(2-chloroisopropyl)ether	0.5	mg/kg	-	< 0.5	< 0.5	-
Bis(2-ethylhexyl)phthalate	5	mg/kg	-	< 5	< 5	-
Butyl benzyl phthalate	0.5	mg/kg	-	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	-
d-BHC	0.5	mg/kg	-	< 0.5	< 0.5	-
Di-n-butyl phthalate	0.5	mg/kg	-	< 0.5	< 0.5	-
Di-n-octyl phthalate	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibenz(a.j)acridine	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibenzofuran	0.5	mg/kg	-	< 0.5	< 0.5	-
Dieldrin	0.5	mg/kg	-	< 0.5	< 0.5	-
Diethyl phthalate	0.5	mg/kg	-	< 0.5	< 0.5	-
Dimethyl phthalate	0.5	mg/kg	-	< 0.5	< 0.5	-
Dimethylaminoazobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP4 0.0-0.1 Soil S17-Ja15614 Jan 23, 2017	TP4 0.5-0.6 Soil S17-Ja15615 Jan 23, 2017	TP3 0.0-0.1 Soil S17-Ja15618 Jan 23, 2017	TP3 0.4-0.6 Soil S17-Ja15619 Jan 23, 2017
Semivolatile Organics						
Diphenylamine	0.5	mg/kg	-	< 0.5	< 0.5	-
Endosulfan I	0.5	mg/kg	-	< 0.5	< 0.5	-
Endosulfan II	0.5	mg/kg	-	< 0.5	< 0.5	-
Endosulfan sulphate	0.5	mg/kg	-	< 0.5	< 0.5	-
Endrin	0.5	mg/kg	-	< 0.5	< 0.5	-
Endrin aldehyde	0.5	mg/kg	-	< 0.5	< 0.5	-
Endrin ketone	0.5	mg/kg	-	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	-	0.8	< 0.5	-
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	-
g-BHC (Lindane)	0.5	mg/kg	-	< 0.5	< 0.5	-
Heptachlor	0.5	mg/kg	-	< 0.5	< 0.5	-
Heptachlor epoxide	0.5	mg/kg	-	< 0.5	< 0.5	-
Hexachlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Hexachlorobutadiene	0.5	mg/kg	-	< 0.5	< 0.5	-
Hexachlorocyclopentadiene	1	mg/kg	-	< 1	< 1	-
Hexachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Methoxychlor	0.5	mg/kg	-	< 0.5	< 0.5	-
N-Nitrosodibutylamine	0.5	mg/kg	-	< 0.5	< 0.5	-
N-Nitrosodipropylamine	0.5	mg/kg	-	< 0.5	< 0.5	-
N-Nitrosopiperidine	0.5	mg/kg	-	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	-
Nitrobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Pentachlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Pentachloronitrobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Pentachlorophenol	1.0	mg/kg	-	< 1	< 1	-
Phenanthrene	0.5	mg/kg	-	0.5	< 0.5	-
Phenol	0.5	mg/kg	-	< 0.5	< 0.5	-
Pronamide	0.5	mg/kg	-	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	-	0.8	< 0.5	-
Trifluralin	0.5	mg/kg	-	< 0.5	< 0.5	-
Phenol-d6 (surr.)	1	%	-	96	92	-
Nitrobenzene-d5 (surr.)	1	%	-	102	92	-
2-Fluorobiphenyl (surr.)	1	%	-	99	94	-
Heavy Metals						
Arsenic	2	mg/kg	2.8	13	2.3	6.1
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	9.4	17	7.1	12
Copper	5	mg/kg	21	49	16	230
Lead	5	mg/kg	41	130	25	850
Mercury	0.1	mg/kg	< 0.1	0.1	< 0.1	1.0
Nickel	5	mg/kg	5.5	18	< 5	10
Zinc	5	mg/kg	52	200	34	260
% Moisture	1	%	17	9.3	8.7	9.2

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP3 1.2-1.3 Soil S17-Ja15621 Jan 23, 2017	DUP 01 Soil S17-Ja15622 Jan 23, 2017	DUP 02 Soil S17-Ja15623 Jan 23, 2017	HA02 0.0-0.1 Soil S17-Ja15631 Jan 24, 2017
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg		< 20	< 20	< 20
TRH C15-C28	50	mg/kg		< 50	< 50	< 50
TRH C29-C36	50	mg/kg		< 50	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	< 0	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	64	65	65	67
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	0.6	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.7	0.9	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	0.6	0.6	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	0.6	0.6	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	0.8	0.9	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	0.8	0.9	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	2.8	3.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	86	91	91	91
p-Terphenyl-d14 (surr.)	1	%	105	110	109	109
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-BHC	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-BHC	0.05	mg/kg	-	-	-	< 0.05

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP3 1.2-1.3 Soil S17-Ja15621 Jan 23, 2017	DUP 01 Soil S17-Ja15622 Jan 23, 2017	DUP 02 Soil S17-Ja15623 Jan 23, 2017	HA02 0.0-0.1 Soil S17-Ja15631 Jan 24, 2017
Organochlorine Pesticides						
d-BHC	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.2	mg/kg	-	-	-	< 0.2
Toxaphene	1	mg/kg	-	-	-	< 1
Dibutylchlorendate (surr.)	1	%	-	-	-	99
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	96
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1242	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1248	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1254	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1260	0.5	mg/kg	-	-	-	< 0.5
Total PCB*	0.5	mg/kg	-	-	-	< 0.5
Dibutylchlorendate (surr.)	1	%	-	-	-	99
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	96
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg		< 50	< 50	< 50
TRH >C16-C34	100	mg/kg		< 100	< 100	< 100
TRH >C34-C40	100	mg/kg		< 100	< 100	< 100
Heavy Metals						
Arsenic	2	mg/kg	9.2	3.5	5.7	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	11	6.8	12	8.5
Copper	5	mg/kg	5.4	22	38	14
Lead	5	mg/kg	26	91	210	28
Mercury	0.1	mg/kg	< 0.1	< 0.1	0.6	< 0.1
Nickel	5	mg/kg	< 5	< 5	5.5	< 5
Zinc	5	mg/kg	15	94	170	44
% Moisture	1	%	19	10	14	6.2

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	HA04 0.0-0.1 Soil S17-Ja15632 Jan 24, 2017	HA04 0.8-1.0 Soil S17-Ja15634 Jan 24, 2017	HA05 0.0-0.1 Soil S17-Ja15635 Jan 24, 2017	HA05 0.4-0.5 Soil S17-Ja15636 Jan 24, 2017
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	52	< 50	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	52	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	99	67	67	66
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	-
Allyl chloride	0.5	mg/kg	< 0.5	-	-	-
Benzene	0.1	mg/kg	< 0.1	-	-	-
Bromobenzene	0.5	mg/kg	< 0.5	-	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromoform	0.5	mg/kg	< 0.5	-	-	-
Bromomethane	0.5	mg/kg	< 0.5	-	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Chloroethane	0.5	mg/kg	< 0.5	-	-	-
Chloroform	0.5	mg/kg	< 0.5	-	-	-
Chloromethane	0.5	mg/kg	< 0.5	-	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	HA04 0.0-0.1 Soil S17-Ja15632 Jan 24, 2017	HA04 0.8-1.0 Soil S17-Ja15634 Jan 24, 2017	HA05 0.0-0.1 Soil S17-Ja15635 Jan 24, 2017	HA05 0.4-0.5 Soil S17-Ja15636 Jan 24, 2017
Volatile Organics						
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
Iodomethane	0.5	mg/kg	< 0.5	-	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Styrene	0.5	mg/kg	< 0.5	-	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Trichloroethene	0.5	mg/kg	< 0.5	-	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	-
Xylenes - Total	0.3	mg/kg	< 0.3	-	-	-
Fluorobenzene (surr.)	1	%	110	-	-	-
4-Bromofluorobenzene (surr.)	1	%	99	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	0.8	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	1.0	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.4	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	0.7	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	0.6	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	0.7	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	0.6	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	1.3	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	0.8	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	1.3	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	6	< 0.5
2-Fluorobiphenyl (surr.)	1	%	92	80	87	83
p-Terphenyl-d14 (surr.)	1	%	91	104	102	104

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	HA04 0.0-0.1 Soil S17-Ja15632 Jan 24, 2017	HA04 0.8-1.0 Soil S17-Ja15634 Jan 24, 2017	HA05 0.0-0.1 Soil S17-Ja15635 Jan 24, 2017	HA05 0.4-0.5 Soil S17-Ja15636 Jan 24, 2017
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	-
a-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
b-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
d-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
Methoxychlor	0.2	mg/kg	< 0.2	-	< 0.2	-
Toxaphene	1	mg/kg	< 1	-	< 1	-
Dibutylchlorendate (surr.)	1	%	110	-	99	-
Tetrachloro-m-xylene (surr.)	1	%	102	-	90	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Semivolatile Organics						
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	-	-	-
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	-
1-Chloronaphthalene	0.5	mg/kg	< 0.5	-	-	-
1-Naphthylamine	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.3.4-Tetrachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.3.5-Tetrachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.4.5-Tetrachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Chloronaphthalene	0.5	mg/kg	< 0.5	-	-	-
2-Chlorophenol	0.5	mg/kg	< 0.5	-	-	-
2-Methylnaphthalene	0.5	mg/kg	< 0.5	-	-	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	-	-	-
2-Naphthylamine	0.5	mg/kg	< 0.5	-	-	-
2-Nitroaniline	1	mg/kg	< 1	-	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	HA04 0.0-0.1 Soil S17-Ja15632 Jan 24, 2017	HA04 0.8-1.0 Soil S17-Ja15634 Jan 24, 2017	HA05 0.0-0.1 Soil S17-Ja15635 Jan 24, 2017	HA05 0.4-0.5 Soil S17-Ja15636 Jan 24, 2017
Semivolatile Organics						
2-Nitrophenol	1	mg/kg	< 1	-	-	-
2-Picoline	0.5	mg/kg	< 0.5	-	-	-
2.3.4.6-Tetrachlorophenol	0.5	mg/kg	< 0.5	-	-	-
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	-	-	-
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	-	-	-
2.4-Dinitrophenol	5	mg/kg	< 5	-	-	-
2.4-Dinitrotoluene	1	mg/kg	< 1	-	-	-
2.4.5-Trichlorophenol	1	mg/kg	< 1	-	-	-
2.4.6-Trichlorophenol	1.0	mg/kg	< 1	-	-	-
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	-	-	-
2.6-Dinitrotoluene	1	mg/kg	< 1	-	-	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	-	-	-
3-Methylcholanthrene	0.5	mg/kg	< 0.5	-	-	-
3.3'-Dichlorobenzidine	0.5	mg/kg	< 0.5	-	-	-
4-Aminobiphenyl	0.5	mg/kg	< 0.5	-	-	-
4-Bromophenyl phenyl ether	0.5	mg/kg	< 0.5	-	-	-
4-Chloro-3-methylphenol	1.0	mg/kg	< 1	-	-	-
4-Chlorophenyl phenyl ether	0.5	mg/kg	< 0.5	-	-	-
4-Nitrophenol	5	mg/kg	< 5	-	-	-
4.4'-DDD	0.5	mg/kg	< 0.5	-	-	-
4.4'-DDE	0.5	mg/kg	< 0.5	-	-	-
4.4'-DDT	1	mg/kg	< 1	-	-	-
7.12-Dimethylbenz(a)anthracene	0.5	mg/kg	< 0.5	-	-	-
a-BHC	0.5	mg/kg	< 0.5	-	-	-
Acenaphthene	0.5	mg/kg	< 0.5	-	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	-
Acetophenone	0.5	mg/kg	< 0.5	-	-	-
Aldrin	0.5	mg/kg	< 0.5	-	-	-
Aniline	0.5	mg/kg	< 0.5	-	-	-
Anthracene	0.5	mg/kg	< 0.5	-	-	-
b-BHC	0.5	mg/kg	< 0.5	-	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Benzyl chloride	0.5	mg/kg	< 0.5	-	-	-
Bis(2-chloroethoxy)methane	0.5	mg/kg	< 0.5	-	-	-
Bis(2-chloroisopropyl)ether	0.5	mg/kg	< 0.5	-	-	-
Bis(2-ethylhexyl)phthalate	5	mg/kg	< 5	-	-	-
Butyl benzyl phthalate	0.5	mg/kg	< 0.5	-	-	-
Chrysene	0.5	mg/kg	< 0.5	-	-	-
d-BHC	0.5	mg/kg	< 0.5	-	-	-
Di-n-butyl phthalate	0.5	mg/kg	< 0.5	-	-	-
Di-n-octyl phthalate	0.5	mg/kg	< 0.5	-	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	-	-
Dibenz(a.j)acridine	0.5	mg/kg	< 0.5	-	-	-
Dibenzofuran	0.5	mg/kg	< 0.5	-	-	-
Dieldrin	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	HA04 0.0-0.1 Soil S17-Ja15632 Jan 24, 2017	HA04 0.8-1.0 Soil S17-Ja15634 Jan 24, 2017	HA05 0.0-0.1 Soil S17-Ja15635 Jan 24, 2017	HA05 0.4-0.5 Soil S17-Ja15636 Jan 24, 2017
Semivolatile Organics						
Diethyl phthalate	0.5	mg/kg	< 0.5	-	-	-
Dimethyl phthalate	0.5	mg/kg	< 0.5	-	-	-
Dimethylaminoazobenzene	0.5	mg/kg	< 0.5	-	-	-
Diphenylamine	0.5	mg/kg	< 0.5	-	-	-
Endosulfan I	0.5	mg/kg	< 0.5	-	-	-
Endosulfan II	0.5	mg/kg	< 0.5	-	-	-
Endosulfan sulphate	0.5	mg/kg	< 0.5	-	-	-
Endrin	0.5	mg/kg	< 0.5	-	-	-
Endrin aldehyde	0.5	mg/kg	< 0.5	-	-	-
Endrin ketone	0.5	mg/kg	< 0.5	-	-	-
Fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Fluorene	0.5	mg/kg	< 0.5	-	-	-
g-BHC (Lindane)	0.5	mg/kg	< 0.5	-	-	-
Heptachlor	0.5	mg/kg	< 0.5	-	-	-
Heptachlor epoxide	0.5	mg/kg	< 0.5	-	-	-
Hexachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Hexachlorobutadiene	0.5	mg/kg	< 0.5	-	-	-
Hexachlorocyclopentadiene	1	mg/kg	< 1	-	-	-
Hexachloroethane	0.5	mg/kg	< 0.5	-	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	-
Methoxychlor	0.5	mg/kg	< 0.5	-	-	-
N-Nitrosodibutylamine	0.5	mg/kg	< 0.5	-	-	-
N-Nitrosodipropylamine	0.5	mg/kg	< 0.5	-	-	-
N-Nitrosopiperidine	0.5	mg/kg	< 0.5	-	-	-
Naphthalene	0.5	mg/kg	< 0.5	-	-	-
Nitrobenzene	0.5	mg/kg	< 0.5	-	-	-
Pentachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Pentachloronitrobenzene	0.5	mg/kg	< 0.5	-	-	-
Pentachlorophenol	1.0	mg/kg	< 1	-	-	-
Phenanthrene	0.5	mg/kg	< 0.5	-	-	-
Phenol	0.5	mg/kg	< 0.5	-	-	-
Pronamide	0.5	mg/kg	< 0.5	-	-	-
Pyrene	0.5	mg/kg	< 0.5	-	-	-
Trifluralin	0.5	mg/kg	< 0.5	-	-	-
Phenol-d6 (surr.)	1	%	90	-	-	-
Nitrobenzene-d5 (surr.)	1	%	93	-	-	-
2-Fluorobiphenyl (surr.)	1	%	92	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	2.8	2.1
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	12	7.8	10	8.6
Copper	5	mg/kg	37	34	21	32
Lead	5	mg/kg	81	110	60	48
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	7.5	< 5	7.9	7.4
Zinc	5	mg/kg	330	400	75	90
% Moisture	1	%	18	5.1	7.7	9.5

Client Sample ID			HA06 0.0-0.1	HA07 0.0-0.1	HA01 0.0-0.1	DUP 04
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			S17-Ja15637	S17-Ja15638	S17-Ja15639	S17-Ja15643
Date Sampled			Jan 24, 2017	Jan 24, 2017	Jan 24, 2017	Jan 24, 2017
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	66	66	100	64
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	-
Allyl chloride	0.5	mg/kg	-	-	< 0.5	-
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	HA06 0.0-0.1 Soil S17-Ja15637 Jan 24, 2017	HA07 0.0-0.1 Soil S17-Ja15638 Jan 24, 2017	HA01 0.0-0.1 Soil S17-Ja15639 Jan 24, 2017	DUP 04 Soil S17-Ja15643 Jan 24, 2017
Volatile Organics						
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Dibromomethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
Iodomethane	0.5	mg/kg	-	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Styrene	0.5	mg/kg	-	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Trichloroethene	0.5	mg/kg	-	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	-
Xylenes - Total	0.3	mg/kg	-	-	< 0.3	-
Fluorobenzene (surr.)	1	%	-	-	115	-
4-Bromofluorobenzene (surr.)	1	%	-	-	100	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	84	88	84	86
p-Terphenyl-d14 (surr.)	1	%	104	103	98	103

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	HA06 0.0-0.1 Soil S17-Ja15637 Jan 24, 2017	HA07 0.0-0.1 Soil S17-Ja15638 Jan 24, 2017	HA01 0.0-0.1 Soil S17-Ja15639 Jan 24, 2017	DUP 04 Soil S17-Ja15643 Jan 24, 2017
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
a-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
b-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
d-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Toxaphene	1	mg/kg	< 1	< 1	< 1	-
Dibutylchlorendate (surr.)	1	%	108	96	81	-
Tetrachloro-m-xylene (surr.)	1	%	94	98	104	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1232	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1242	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1248	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1254	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1260	0.5	mg/kg	-	-	< 0.5	-
Total PCB*	0.5	mg/kg	-	-	< 0.5	-
Dibutylchlorendate (surr.)	1	%	-	-	81	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	104	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Semivolatile Organics						
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	-	< 5	-
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	-
1-Chloronaphthalene	0.5	mg/kg	-	-	< 0.5	-
1-Naphthylamine	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2.3.4-Tetrachlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2.3.5-Tetrachlorobenzene	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	HA06 0.0-0.1 Soil S17-Ja15637 Jan 24, 2017	HA07 0.0-0.1 Soil S17-Ja15638 Jan 24, 2017	HA01 0.0-0.1 Soil S17-Ja15639 Jan 24, 2017	DUP 04 Soil S17-Ja15643 Jan 24, 2017
Semivolatile Organics						
1.2.4-Trichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2.4.5-Tetrachlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Chloronaphthalene	0.5	mg/kg	-	-	< 0.5	-
2-Chlorophenol	0.5	mg/kg	-	-	< 0.5	-
2-Methylnaphthalene	0.5	mg/kg	-	-	< 0.5	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	-	< 0.2	-
2-Naphthylamine	0.5	mg/kg	-	-	< 0.5	-
2-Nitroaniline	1	mg/kg	-	-	< 1	-
2-Nitrophenol	1	mg/kg	-	-	< 1	-
2-Picoline	0.5	mg/kg	-	-	< 0.5	-
2.3.4.6-Tetrachlorophenol	0.5	mg/kg	-	-	< 0.5	-
2.4-Dichlorophenol	0.5	mg/kg	-	-	< 0.5	-
2.4-Dimethylphenol	0.5	mg/kg	-	-	< 0.5	-
2.4-Dinitrophenol	5	mg/kg	-	-	< 5	-
2.4-Dinitrotoluene	1	mg/kg	-	-	< 1	-
2.4.5-Trichlorophenol	1	mg/kg	-	-	< 1	-
2.4.6-Trichlorophenol	1.0	mg/kg	-	-	< 1	-
2.6-Dichlorophenol	0.5	mg/kg	-	-	< 0.5	-
2.6-Dinitrotoluene	1	mg/kg	-	-	< 1	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	-	< 0.4	-
3-Methylcholanthrene	0.5	mg/kg	-	-	< 0.5	-
3.3'-Dichlorobenzidine	0.5	mg/kg	-	-	< 0.5	-
4-Aminobiphenyl	0.5	mg/kg	-	-	< 0.5	-
4-Bromophenyl phenyl ether	0.5	mg/kg	-	-	< 0.5	-
4-Chloro-3-methylphenol	1.0	mg/kg	-	-	< 1	-
4-Chlorophenyl phenyl ether	0.5	mg/kg	-	-	< 0.5	-
4-Nitrophenol	5	mg/kg	-	-	< 5	-
4.4'-DDD	0.5	mg/kg	-	-	< 0.5	-
4.4'-DDE	0.5	mg/kg	-	-	< 0.5	-
4.4'-DDT	1	mg/kg	-	-	< 1	-
7.12-Dimethylbenz(a)anthracene	0.5	mg/kg	-	-	< 0.5	-
a-BHC	0.5	mg/kg	-	-	< 0.5	-
Acenaphthene	0.5	mg/kg	-	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	-
Acetophenone	0.5	mg/kg	-	-	< 0.5	-
Aldrin	0.5	mg/kg	-	-	< 0.5	-
Aniline	0.5	mg/kg	-	-	< 0.5	-
Anthracene	0.5	mg/kg	-	-	< 0.5	-
b-BHC	0.5	mg/kg	-	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Benzyl chloride	0.5	mg/kg	-	-	< 0.5	-
Bis(2-chloroethoxy)methane	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	HA06 0.0-0.1 Soil S17-Ja15637 Jan 24, 2017	HA07 0.0-0.1 Soil S17-Ja15638 Jan 24, 2017	HA01 0.0-0.1 Soil S17-Ja15639 Jan 24, 2017	DUP 04 Soil S17-Ja15643 Jan 24, 2017
Semivolatile Organics						
Bis(2-chloroisopropyl)ether	0.5	mg/kg	-	-	< 0.5	-
Bis(2-ethylhexyl)phthalate	5	mg/kg	-	-	< 5	-
Butyl benzyl phthalate	0.5	mg/kg	-	-	< 0.5	-
Chrysene	0.5	mg/kg	-	-	< 0.5	-
d-BHC	0.5	mg/kg	-	-	< 0.5	-
Di-n-butyl phthalate	0.5	mg/kg	-	-	< 0.5	-
Di-n-octyl phthalate	0.5	mg/kg	-	-	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	< 0.5	-
Dibenz(a.j)acridine	0.5	mg/kg	-	-	< 0.5	-
Dibenzofuran	0.5	mg/kg	-	-	< 0.5	-
Dieldrin	0.5	mg/kg	-	-	< 0.5	-
Diethyl phthalate	0.5	mg/kg	-	-	< 0.5	-
Dimethyl phthalate	0.5	mg/kg	-	-	< 0.5	-
Dimethylaminoazobenzene	0.5	mg/kg	-	-	< 0.5	-
Diphenylamine	0.5	mg/kg	-	-	< 0.5	-
Endosulfan I	0.5	mg/kg	-	-	< 0.5	-
Endosulfan II	0.5	mg/kg	-	-	< 0.5	-
Endosulfan sulphate	0.5	mg/kg	-	-	< 0.5	-
Endrin	0.5	mg/kg	-	-	< 0.5	-
Endrin aldehyde	0.5	mg/kg	-	-	< 0.5	-
Endrin ketone	0.5	mg/kg	-	-	< 0.5	-
Fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Fluorene	0.5	mg/kg	-	-	< 0.5	-
g-BHC (Lindane)	0.5	mg/kg	-	-	< 0.5	-
Heptachlor	0.5	mg/kg	-	-	< 0.5	-
Heptachlor epoxide	0.5	mg/kg	-	-	< 0.5	-
Hexachlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Hexachlorobutadiene	0.5	mg/kg	-	-	< 0.5	-
Hexachlorocyclopentadiene	1	mg/kg	-	-	< 1	-
Hexachloroethane	0.5	mg/kg	-	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	-
Methoxychlor	0.5	mg/kg	-	-	< 0.5	-
N-Nitrosodibutylamine	0.5	mg/kg	-	-	< 0.5	-
N-Nitrosodipropylamine	0.5	mg/kg	-	-	< 0.5	-
N-Nitrosopiperidine	0.5	mg/kg	-	-	< 0.5	-
Naphthalene	0.5	mg/kg	-	-	< 0.5	-
Nitrobenzene	0.5	mg/kg	-	-	< 0.5	-
Pentachlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Pentachloronitrobenzene	0.5	mg/kg	-	-	< 0.5	-
Pentachlorophenol	1.0	mg/kg	-	-	< 1	-
Phenanthrene	0.5	mg/kg	-	-	< 0.5	-
Phenol	0.5	mg/kg	-	-	< 0.5	-
Pronamide	0.5	mg/kg	-	-	< 0.5	-
Pyrene	0.5	mg/kg	-	-	< 0.5	-
Trifluralin	0.5	mg/kg	-	-	< 0.5	-
Phenol-d6 (surr.)	1	%	-	-	86	-
Nitrobenzene-d5 (surr.)	1	%	-	-	85	-
2-Fluorobiphenyl (surr.)	1	%	-	-	84	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	HA06 0.0-0.1 Soil S17-Ja15637 Jan 24, 2017	HA07 0.0-0.1 Soil S17-Ja15638 Jan 24, 2017	HA01 0.0-0.1 Soil S17-Ja15639 Jan 24, 2017	DUP 04 Soil S17-Ja15643 Jan 24, 2017
Heavy Metals						
Arsenic	2	mg/kg	< 2	2.2	2.7	4.3
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	8.2	12	8.7
Copper	5	mg/kg	< 5	13	31	29
Lead	5	mg/kg	< 5	19	74	86
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	6.5	5.9
Zinc	5	mg/kg	24	28	150	120
% Moisture	1	%	1.6	3.6	3.9	4.7

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins | mgt Suite B4			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Feb 02, 2017	14 Day
- Method: TRH C6-C36 - LTM-ORG-2010			
BTEX	Sydney	Feb 02, 2017	14 Day
- Method: TRH C6-C40 - LTM-ORG-2010			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Feb 02, 2017	14 Day
- Method: TRH C6-C40 - LTM-ORG-2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Feb 02, 2017	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Feb 02, 2017	14 Day
- Method: TRH C6-C40 - LTM-ORG-2010			
Volatile Organics	Sydney	Feb 02, 2017	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			
Organochlorine Pesticides	Sydney	Feb 02, 2017	14 Day
- Method: E013 Organochlorine Pesticides (OC)			
Polychlorinated Biphenyls	Sydney	Feb 02, 2017	28 Day
- Method: E013 Polychlorinated Biphenyls (PCB)			
Semivolatile Organics	Sydney	Feb 02, 2017	14 Day
- Method: USEPA 8270 Semivolatile Organics			
Metals M8	Sydney	Feb 02, 2017	28 Day
- Method: LTM-MET-3040_R0 TOTAL AND DISSOLVED METALS AND MERCURY IN WATERS BY ICP-MS			
% Moisture	Sydney	Jan 27, 2017	14 Day
- Method: LTM-GEN-7080 Moisture			

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Company Name: Coffey Geotechnics Pty Ltd Chatswood
Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: ALEXANDRIA SCHOOL
Project ID: 754-SYDEN199382

Order No.:
Report #: 531768
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: Jan 27, 2017 12:51 PM
Due: Feb 3, 2017
Priority: 5 Day
Contact Name: Alex Ructtinger

Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail						Asbestos Absence /Presence	HOLD	TRH C6-C9	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Volatile Organics	Moisture Set	Semivolatile Organics	Eurofins | mgt Suite B4
Melbourne Laboratory - NATA Site # 1254 & 14271																
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																
Perth Laboratory - NATA Site # 18217																
External Laboratory																
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**											
1	TP8 0.0-0.1	Jan 23, 2017		Soil	S17-Ja15600				X		X			X		X
2	TP8 0.4-0.6	Jan 23, 2017		Soil	S17-Ja15601					X	X			X		X
3	TP8 0.8-1.0	Jan 23, 2017		Soil	S17-Ja15602		X									
4	TP6 0.0-0.1	Jan 23, 2017		Soil	S17-Ja15603				X	X	X			X		X
5	TP6 0.4-0.6	Jan 23, 2017		Soil	S17-Ja15604						X			X		X
6	TP6 0.9-1.0	Jan 23, 2017		Soil	S17-Ja15605		X									
7	TP7 0.0-0.1	Jan 23, 2017		Soil	S17-Ja15606	X			X		X		X	X	X	X
8	TP7 0.4-0.6	Jan 23, 2017		Soil	S17-Ja15607		X									
9	TP7 0.9-1.0	Jan 23, 2017		Soil	S17-Ja15608						X			X		X

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Melbourne Laboratory - NATA Site # 1254 & 14271																
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																
Perth Laboratory - NATA Site # 18217																
10	TP7 2.0-2.2	Jan 23, 2017		Soil	S17-Ja15609		X									
11	TP5 0.0-0.1	Jan 23, 2017		Soil	S17-Ja15610	X			X	X	X			X		X
12	TP5 0.4-0.6	Jan 23, 2017		Soil	S17-Ja15611	X										
13	TP5 0.9-1.0	Jan 23, 2017		Soil	S17-Ja15612	X					X			X		X
14	TP5 1.8-2.0	Jan 23, 2017		Soil	S17-Ja15613		X									
15	TP4 0.0-0.1	Jan 23, 2017		Soil	S17-Ja15614				X		X			X		X
16	TP4 0.5-0.6	Jan 23, 2017		Soil	S17-Ja15615					X	X		X	X	X	X
17	TP4 0.8-1.0	Jan 23, 2017		Soil	S17-Ja15616		X									
18	TP4 1.3-1.5	Jan 23, 2017		Soil	S17-Ja15617		X									
19	TP3 0.0-0.1	Jan 23, 2017		Soil	S17-Ja15618				X	X	X		X	X	X	X
20	TP3 0.4-0.6	Jan 23, 2017		Soil	S17-Ja15619						X			X		X
21	TP3 0.9-1.0	Jan 23, 2017		Soil	S17-Ja15620		X									

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Sample Detail						Asbestos Absence / Presence	HOLD	TRH C6-C9	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Volatile Organics	Moisture Set	Semivolatile Organics	Eurofins | mgt Suite B4
Melbourne Laboratory - NATA Site # 1254 & 14271																
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																
Perth Laboratory - NATA Site # 18217																
22	TP3 1.2-1.3	Jan 23, 2017		Soil	S17-Ja15621						X			X		X
23	DUP 01	Jan 23, 2017		Soil	S17-Ja15622						X			X		X
24	DUP 02	Jan 23, 2017		Soil	S17-Ja15623						X			X		X
25	DUP 03	Jan 23, 2017		Soil	S17-Ja15624		X									
26	TB1	Jan 23, 2017		Water	S17-Ja15625			X				X				
27	TS1	Jan 23, 2017		Water	S17-Ja15626			X				X				
28	TP6-ACM	Jan 23, 2017		Other	S17-Ja15627		X									
29	TP7-ACM	Jan 23, 2017		Other	S17-Ja15628		X									
30	APS-1	Jan 23, 2017		Other	S17-Ja15629	X										
31	TPS-ACM	Jan 23, 2017		Other	S17-Ja15630		X									
32	HA02 0.0-0.1	Jan 24, 2017		Soil	S17-Ja15631	X			X	X	X			X		X
33	HA04 0.0-0.1	Jan 24, 2017		Soil	S17-Ja15632	X			X		X		X	X	X	X

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Melbourne Laboratory - NATA Site # 1254 & 14271																
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																
Perth Laboratory - NATA Site # 18217																
34	HA04 0.5-0.6	Jan 24, 2017		Soil	S17-Ja15633		X									
35	HA04 0.8-1.0	Jan 24, 2017		Soil	S17-Ja15634						X			X		X
36	HA05 0.0-0.1	Jan 24, 2017		Soil	S17-Ja15635				X		X			X		X
37	HA05 0.4-0.5	Jan 24, 2017		Soil	S17-Ja15636						X			X		X
38	HA06 0.0-0.1	Jan 24, 2017		Soil	S17-Ja15637				X		X			X		X
39	HA07 0.0-0.1	Jan 24, 2017		Soil	S17-Ja15638	X			X		X			X		X
40	HA01 0.0-0.1	Jan 24, 2017		Soil	S17-Ja15639				X	X	X		X	X	X	X
41	TB2	Jan 24, 2017		Water	S17-Ja15640			X				X				
42	TS2	Jan 24, 2017		Water	S17-Ja15641			X				X				
43	RINSATE	Jan 24, 2017		Water	S17-Ja15642						X					X
44	DUP 04	Jan 24, 2017		Soil	S17-Ja15643						X			X		X
Test Counts						8	13	4	12	7	25	4	5	24	5	25

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Advice.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Nephelometric Turbidity Units

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 50-150%-Phenols & PFASs 20-130%

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Benzene	mg/kg	< 0.1			0.1	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB*	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Semivolatile Organics							
2-Methyl-4.6-dinitrophenol	mg/kg	< 5			5	Pass	
1-Chloronaphthalene	mg/kg	< 0.5			0.5	Pass	
1-Naphthylamine	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2.3.4-Tetrachlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2.3.5-Tetrachlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2.4.5-Tetrachlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Chloronaphthalene	mg/kg	< 0.5			0.5	Pass	
2-Chlorophenol	mg/kg	< 0.5			0.5	Pass	
2-Methylnaphthalene	mg/kg	< 0.5			0.5	Pass	
2-Methylphenol (o-Cresol)	mg/kg	< 0.2			0.2	Pass	
2-Naphthylamine	mg/kg	< 0.5			0.5	Pass	
2-Nitroaniline	mg/kg	< 1			1	Pass	
2-Nitrophenol	mg/kg	< 1			1	Pass	
2-Picoline	mg/kg	< 0.5			0.5	Pass	
2.3.4.6-Tetrachlorophenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dimethylphenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dinitrophenol	mg/kg	< 5			5	Pass	
2.4-Dinitrotoluene	mg/kg	< 1			1	Pass	
2.4.5-Trichlorophenol	mg/kg	< 1			1	Pass	
2.4.6-Trichlorophenol	mg/kg	< 1			1.0	Pass	
2.6-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
2.6-Dinitrotoluene	mg/kg	< 1			1	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 0.4			0.4	Pass	
3-Methylcholanthrene	mg/kg	< 0.5			0.5	Pass	
3.3'-Dichlorobenzidine	mg/kg	< 0.5			0.5	Pass	
4-Aminobiphenyl	mg/kg	< 0.5			0.5	Pass	
4-Bromophenyl phenyl ether	mg/kg	< 0.5			0.5	Pass	
4-Chloro-3-methylphenol	mg/kg	< 1			1.0	Pass	
4-Chlorophenyl phenyl ether	mg/kg	< 0.5			0.5	Pass	
4-Nitrophenol	mg/kg	< 5			5	Pass	
4.4'-DDD	mg/kg	< 0.5			0.5	Pass	
4.4'-DDE	mg/kg	< 0.5			0.5	Pass	
4.4'-DDT	mg/kg	< 1			1	Pass	
7.12-Dimethylbenz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
a-BHC	mg/kg	< 0.5			0.5	Pass	
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Acetophenone	mg/kg	< 0.5			0.5	Pass	
Aldrin	mg/kg	< 0.5			0.5	Pass	
Aniline	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
b-BHC	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzyl chloride	mg/kg	< 0.5			0.5	Pass	
Bis(2-chloroethoxy)methane	mg/kg	< 0.5			0.5	Pass	
Bis(2-chloroisopropyl)ether	mg/kg	< 0.5			0.5	Pass	
Bis(2-ethylhexyl)phthalate	mg/kg	< 5			5	Pass	
Butyl benzyl phthalate	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
d-BHC	mg/kg	< 0.5			0.5	Pass	
Di-n-butyl phthalate	mg/kg	< 0.5			0.5	Pass	
Di-n-octyl phthalate	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.j)acridine	mg/kg	< 0.5			0.5	Pass	
Dibenzofuran	mg/kg	< 0.5			0.5	Pass	
Dieldrin	mg/kg	< 0.5			0.5	Pass	
Diethyl phthalate	mg/kg	< 0.5			0.5	Pass	
Dimethyl phthalate	mg/kg	< 0.5			0.5	Pass	
Dimethylaminoazobenzene	mg/kg	< 0.5			0.5	Pass	
Diphenylamine	mg/kg	< 0.5			0.5	Pass	
Endosulfan I	mg/kg	< 0.5			0.5	Pass	
Endosulfan II	mg/kg	< 0.5			0.5	Pass	
Endosulfan sulphate	mg/kg	< 0.5			0.5	Pass	
Endrin	mg/kg	< 0.5			0.5	Pass	
Endrin aldehyde	mg/kg	< 0.5			0.5	Pass	
Endrin ketone	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
g-BHC (Lindane)	mg/kg	< 0.5			0.5	Pass	
Heptachlor	mg/kg	< 0.5			0.5	Pass	
Heptachlor epoxide	mg/kg	< 0.5			0.5	Pass	
Hexachlorobenzene	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Hexachlorobutadiene	mg/kg	< 0.5			0.5	Pass	
Hexachlorocyclopentadiene	mg/kg	< 1			1	Pass	
Hexachloroethane	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Methoxychlor	mg/kg	< 0.5			0.5	Pass	
N-Nitrosodibutylamine	mg/kg	< 0.5			0.5	Pass	
N-Nitrosodipropylamine	mg/kg	< 0.5			0.5	Pass	
N-Nitrosopiperidine	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Nitrobenzene	mg/kg	< 0.5			0.5	Pass	
Pentachlorobenzene	mg/kg	< 0.5			0.5	Pass	
Pentachloronitrobenzene	mg/kg	< 0.5			0.5	Pass	
Pentachlorophenol	mg/kg	< 1			1.0	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Phenol	mg/kg	< 0.5			0.5	Pass	
Pronamide	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Trifluralin	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	123			70-130	Pass	
TRH C10-C14	%	89			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	116			70-130	Pass	
Toluene	%	112			70-130	Pass	
Ethylbenzene	%	110			70-130	Pass	
m&p-Xylenes	%	114			70-130	Pass	
o-Xylene	%	113			70-130	Pass	
Xylenes - Total	%	113			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethane	%	114			70-130	Pass	
1.1-Dichloroethene	%	112			70-130	Pass	
1.1.1-Trichloroethane	%	110			70-130	Pass	
1.1.1.2-Tetrachloroethane	%	91			70-130	Pass	
1.1.2-Trichloroethane	%	110			70-130	Pass	
1.1.2.2-Tetrachloroethane	%	98			70-130	Pass	
1.2-Dibromoethane	%	109			70-130	Pass	
1.2-Dichlorobenzene	%	115			70-130	Pass	
1.2-Dichloroethane	%	108			70-130	Pass	
1.2-Dichloropropane	%	110			70-130	Pass	
1.2.3-Trichloropropane	%	117			70-130	Pass	
1.2.4-Trimethylbenzene	%	115			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.3-Dichlorobenzene	%	115			70-130	Pass	
1.3-Dichloropropane	%	111			70-130	Pass	
1.3.5-Trimethylbenzene	%	114			70-130	Pass	
1.4-Dichlorobenzene	%	115			70-130	Pass	
2-Butanone (MEK)	%	112			70-130	Pass	
2-Propanone (Acetone)	%	125			70-130	Pass	
4-Chlorotoluene	%	114			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	%	116			70-130	Pass	
Allyl chloride	%	103			70-130	Pass	
Benzene	%	112			70-130	Pass	
Bromobenzene	%	114			70-130	Pass	
Bromochloromethane	%	109			70-130	Pass	
Bromodichloromethane	%	104			70-130	Pass	
Bromoform	%	88			70-130	Pass	
Carbon disulfide	%	106			70-130	Pass	
Carbon Tetrachloride	%	108			70-130	Pass	
Chlorobenzene	%	96			70-130	Pass	
Chloroethane	%	94			70-130	Pass	
Chloroform	%	113			70-130	Pass	
Chloromethane	%	120			70-130	Pass	
cis-1.2-Dichloroethene	%	115			70-130	Pass	
cis-1.3-Dichloropropene	%	104			70-130	Pass	
Dibromochloromethane	%	102			70-130	Pass	
Dibromomethane	%	111			70-130	Pass	
Dichlorodifluoromethane	%	121			70-130	Pass	
Ethylbenzene	%	95			70-130	Pass	
Iodomethane	%	71			70-130	Pass	
Isopropyl benzene (Cumene)	%	94			70-130	Pass	
m&p-Xylenes	%	94			70-130	Pass	
Methylene Chloride	%	101			70-130	Pass	
o-Xylene	%	94			70-130	Pass	
Styrene	%	94			70-130	Pass	
Tetrachloroethene	%	111			70-130	Pass	
Toluene	%	112			70-130	Pass	
trans-1.2-Dichloroethene	%	115			70-130	Pass	
trans-1.3-Dichloropropene	%	107			70-130	Pass	
Trichloroethene	%	110			70-130	Pass	
Trichlorofluoromethane	%	107			70-130	Pass	
Vinyl chloride	%	82			70-130	Pass	
Xylenes - Total	%	94			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	115			70-130	Pass	
TRH C6-C10	%	113			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	100			70-130	Pass	
Acenaphthylene	%	84			70-130	Pass	
Anthracene	%	101			70-130	Pass	
Benz(a)anthracene	%	91			70-130	Pass	
Benzo(a)pyrene	%	96			70-130	Pass	
Benzo(b&j)fluoranthene	%	88			70-130	Pass	
Benzo(g.h.i)perylene	%	96			70-130	Pass	
Benzo(k)fluoranthene	%	98			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chrysene	%	110			70-130	Pass	
Dibenz(a.h)anthracene	%	90			70-130	Pass	
Fluoranthene	%	100			70-130	Pass	
Fluorene	%	90			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	90			70-130	Pass	
Naphthalene	%	93			70-130	Pass	
Phenanthrene	%	93			70-130	Pass	
Pyrene	%	95			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	98			70-130	Pass	
4.4'-DDD	%	98			70-130	Pass	
4.4'-DDE	%	97			70-130	Pass	
4.4'-DDT	%	108			70-130	Pass	
a-BHC	%	100			70-130	Pass	
Aldrin	%	102			70-130	Pass	
b-BHC	%	109			70-130	Pass	
d-BHC	%	126			70-130	Pass	
Dieldrin	%	99			70-130	Pass	
Endosulfan I	%	101			70-130	Pass	
Endosulfan II	%	100			70-130	Pass	
Endosulfan sulphate	%	84			70-130	Pass	
Endrin	%	102			70-130	Pass	
Endrin aldehyde	%	95			70-130	Pass	
Endrin ketone	%	95			70-130	Pass	
g-BHC (Lindane)	%	98			70-130	Pass	
Heptachlor	%	105			70-130	Pass	
Heptachlor epoxide	%	98			70-130	Pass	
Hexachlorobenzene	%	94			70-130	Pass	
Methoxychlor	%	107			70-130	Pass	
Toxaphene	%	84			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	108			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH >C10-C16	%	89			70-130	Pass	
LCS - % Recovery							
Semivolatile Organics							
1.2.4-Trichlorobenzene	%	79			70-130	Pass	
1.4-Dichlorobenzene	%	81			70-130	Pass	
2-Chlorophenol	%	79			30-130	Pass	
4-Chloro-3-methylphenol	%	79			30-130	Pass	
4-Nitrophenol	%	75			30-130	Pass	
Acenaphthene	%	79			70-130	Pass	
Acenaphthylene	%	84			70-130	Pass	
Anthracene	%	95			70-130	Pass	
Benz(a)anthracene	%	91			70-130	Pass	
Benzo(a)pyrene	%	92			70-130	Pass	
Benzo(b&j)fluoranthene	%	88			70-130	Pass	
Benzo(g.h.i)perylene	%	87			70-130	Pass	
Benzo(k)fluoranthene	%	94			70-130	Pass	
Chrysene	%	103			70-130	Pass	
Dibenz(a.h)anthracene	%	83			70-130	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Fluoranthene			%	98			70-130	Pass	
Fluorene			%	90			70-130	Pass	
Indeno(1.2.3-cd)pyrene			%	81			70-130	Pass	
N-Nitrosodipropylamine			%	79			70-130	Pass	
Naphthalene			%	92			70-130	Pass	
Phenanthrene			%	90			70-130	Pass	
Phenol			%	77			30-130	Pass	
Pyrene			%	85			70-130	Pass	
LCS - % Recovery									
Heavy Metals									
Arsenic			%	100			70-130	Pass	
Cadmium			%	101			70-130	Pass	
Copper			%	96			70-130	Pass	
Lead			%	94			70-130	Pass	
Mercury			%	103			70-130	Pass	
Nickel			%	97			70-130	Pass	
Zinc			%	96			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthylene	S17-Fe02404	NCP	%	92			70-130	Pass	
Anthracene	S17-Fe02404	NCP	%	120			70-130	Pass	
Benz(a)anthracene	S17-Fe02404	NCP	%	106			70-130	Pass	
Benzo(a)pyrene	S17-Fe02404	NCP	%	109			70-130	Pass	
Benzo(b&j)fluoranthene	S17-Fe02404	NCP	%	99			70-130	Pass	
Benzo(g.h.i)perylene	S17-Fe02404	NCP	%	98			70-130	Pass	
Benzo(k)fluoranthene	S17-Fe02404	NCP	%	114			70-130	Pass	
Chrysene	S17-Fe02404	NCP	%	119			70-130	Pass	
Dibenz(a.h)anthracene	S17-Fe02404	NCP	%	87			70-130	Pass	
Fluoranthene	S17-Fe02404	NCP	%	119			70-130	Pass	
Fluorene	S17-Fe02404	NCP	%	106			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S17-Fe02404	NCP	%	92			70-130	Pass	
Naphthalene	S17-Fe02404	NCP	%	111			70-130	Pass	
Phenanthrene	S17-Fe02404	NCP	%	114			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Hexachlorobenzene	S17-Ja17315	NCP	%	78			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S17-Ja15601	CP	%	86			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S17-Ja15601	CP	%	86			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S17-Ja15601	CP	%	101			70-130	Pass	
Cadmium	S17-Ja15601	CP	%	99			70-130	Pass	
Chromium	S17-Ja15601	CP	%	91			70-130	Pass	
Copper	S17-Ja15601	CP	%	95			70-130	Pass	
Lead	S17-Ja15601	CP	%	76			70-130	Pass	
Mercury	S17-Ja15601	CP	%	95			70-130	Pass	
Nickel	S17-Ja15601	CP	%	96			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chlordanes - Total	S17-Ja15603	CP	%	110			70-130	Pass	
4.4'-DDD	S17-Ja15603	CP	%	129			70-130	Pass	
4.4'-DDE	S17-Ja15603	CP	%	109			70-130	Pass	
4.4'-DDT	S17-Ja15603	CP	%	97			70-130	Pass	
a-BHC	S17-Ja15603	CP	%	114			70-130	Pass	
Aldrin	S17-Ja15603	CP	%	115			70-130	Pass	
b-BHC	S17-Ja15603	CP	%	119			70-130	Pass	
d-BHC	S17-Ja15603	CP	%	140			70-130	Fail	Q08
Dieldrin	S17-Ja15603	CP	%	112			70-130	Pass	
Endosulfan I	S17-Ja15603	CP	%	112			70-130	Pass	
Endosulfan II	S17-Ja15603	CP	%	112			70-130	Pass	
Endosulfan sulphate	S17-Ja15603	CP	%	82			70-130	Pass	
Endrin	S17-Ja15603	CP	%	119			70-130	Pass	
Endrin aldehyde	S17-Ja15603	CP	%	83			70-130	Pass	
Endrin ketone	S17-Ja15603	CP	%	84			70-130	Pass	
g-BHC (Lindane)	S17-Ja15603	CP	%	107			70-130	Pass	
Heptachlor	S17-Ja15603	CP	%	128			70-130	Pass	
Heptachlor epoxide	S17-Ja15603	CP	%	112			70-130	Pass	
Methoxychlor	S17-Ja15603	CP	%	110			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1260	S17-Ja15603	CP	%	107			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S17-Ja15615	CP	%	111			70-130	Pass	
Toluene	S17-Ja15615	CP	%	112			70-130	Pass	
Ethylbenzene	S17-Ja15615	CP	%	95			70-130	Pass	
m&p-Xylenes	S17-Ja15615	CP	%	95			70-130	Pass	
o-Xylene	S17-Ja15615	CP	%	95			70-130	Pass	
Xylenes - Total	S17-Ja15615	CP	%	95			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethane	S17-Ja15615	CP	%	118			70-130	Pass	
1.1-Dichloroethene	S17-Ja15615	CP	%	115			70-130	Pass	
1.1.1-Trichloroethane	S17-Ja15615	CP	%	110			70-130	Pass	
1.1.1.2-Tetrachloroethane	S17-Ja15615	CP	%	90			70-130	Pass	
1.1.2-Trichloroethane	S17-Ja15615	CP	%	112			70-130	Pass	
1.1.2.2-Tetrachloroethane	S17-Ja15615	CP	%	101			70-130	Pass	
1.2-Dibromoethane	S17-Ja15615	CP	%	111			70-130	Pass	
1.2-Dichlorobenzene	S17-Ja15615	CP	%	114			70-130	Pass	
1.2-Dichloroethane	S17-Ja15615	CP	%	110			70-130	Pass	
1.2-Dichloropropane	S17-Ja15615	CP	%	112			70-130	Pass	
1.2.3-Trichloropropane	S17-Ja15615	CP	%	120			70-130	Pass	
1.2.4-Trimethylbenzene	S17-Ja15615	CP	%	114			70-130	Pass	
1.3-Dichlorobenzene	S17-Ja15615	CP	%	112			70-130	Pass	
1.3-Dichloropropane	S17-Ja15615	CP	%	113			70-130	Pass	
1.3.5-Trimethylbenzene	S17-Ja15615	CP	%	113			70-130	Pass	
1.4-Dichlorobenzene	S17-Ja15615	CP	%	113			70-130	Pass	
2-Butanone (MEK)	S17-Ja15615	CP	%	120			70-130	Pass	
2-Propanone (Acetone)	S17-Ja15615	CP	%	126			70-130	Pass	
4-Chlorotoluene	S17-Ja15615	CP	%	113			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	S17-Ja15615	CP	%	122			70-130	Pass	
Allyl chloride	S17-Ja15615	CP	%	107			70-130	Pass	
Bromobenzene	S17-Ja15615	CP	%	113			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Bromochloromethane	S17-Ja15615	CP	%	113			70-130	Pass	
Bromodichloromethane	S17-Ja15615	CP	%	100			70-130	Pass	
Bromoform	S17-Ja15615	CP	%	82			70-130	Pass	
Carbon disulfide	S17-Ja15615	CP	%	96			70-130	Pass	
Carbon Tetrachloride	S17-Ja15615	CP	%	104			70-130	Pass	
Chlorobenzene	S17-Ja15615	CP	%	96			70-130	Pass	
Chloroethane	S17-Ja15615	CP	%	104			70-130	Pass	
Chloroform	S17-Ja15615	CP	%	116			70-130	Pass	
Chloromethane	S17-Ja15615	CP	%	123			70-130	Pass	
cis-1.2-Dichloroethene	S17-Ja15615	CP	%	119			70-130	Pass	
cis-1.3-Dichloropropene	S17-Ja15615	CP	%	100			70-130	Pass	
Dibromochloromethane	S17-Ja15615	CP	%	98			70-130	Pass	
Dibromomethane	S17-Ja15615	CP	%	111			70-130	Pass	
Dichlorodifluoromethane	S17-Ja15615	CP	%	101			70-130	Pass	
Isopropyl benzene (Cumene)	S17-Ja15615	CP	%	95			70-130	Pass	
Methylene Chloride	S17-Ja15615	CP	%	119			70-130	Pass	
Styrene	S17-Ja15615	CP	%	94			70-130	Pass	
Tetrachloroethene	S17-Ja15615	CP	%	110			70-130	Pass	
trans-1.2-Dichloroethene	S17-Ja15615	CP	%	118			70-130	Pass	
trans-1.3-Dichloropropene	S17-Ja15615	CP	%	103			70-130	Pass	
Trichloroethene	S17-Ja15615	CP	%	111			70-130	Pass	
Trichlorofluoromethane	S17-Ja15615	CP	%	111			70-130	Pass	
Vinyl chloride	S17-Ja15615	CP	%	86			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S17-Ja15615	CP	%	111			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S17-Ja15615	CP	%	87			70-130	Pass	
Pyrene	S17-Ja15615	CP	%	125			70-130	Pass	
Spike - % Recovery									
Semivolatile Organics				Result 1					
1.2.4-Trichlorobenzene	S17-Ja15615	CP	%	87			70-130	Pass	
1.4-Dichlorobenzene	S17-Ja15615	CP	%	88			70-130	Pass	
2-Chlorophenol	S17-Ja15615	CP	%	85			30-130	Pass	
2.4-Dinitrotoluene	S17-Ja15615	CP	%	73			70-130	Pass	
4-Chloro-3-methylphenol	S17-Ja15615	CP	%	87			30-130	Pass	
4-Nitrophenol	S17-Ja15615	CP	%	82			30-130	Pass	
N-Nitrosodipropylamine	S17-Ja15615	CP	%	91			70-130	Pass	
Phenol	S17-Ja15615	CP	%	86			30-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S17-Ja15619	CP	%	96			70-130	Pass	
TRH C10-C14	S17-Ja15619	CP	%	102			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S17-Ja15619	CP	%	107			70-130	Pass	
Toluene	S17-Ja15619	CP	%	105			70-130	Pass	
Ethylbenzene	S17-Ja15619	CP	%	102			70-130	Pass	
m&p-Xylenes	S17-Ja15619	CP	%	105			70-130	Pass	
o-Xylene	S17-Ja15619	CP	%	105			70-130	Pass	
Xylenes - Total	S17-Ja15619	CP	%	105			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Naphthalene	S17-Ja15619	CP	%	87			70-130	Pass	
TRH C6-C10	S17-Ja15619	CP	%	103			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S17-Ja15619	CP	%	108			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S17-Ja15638	CP	%	117			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S17-Ja15638	CP	%	109			70-130	Pass	
Toluene	S17-Ja15638	CP	%	105			70-130	Pass	
Ethylbenzene	S17-Ja15638	CP	%	103			70-130	Pass	
m&p-Xylenes	S17-Ja15638	CP	%	108			70-130	Pass	
o-Xylene	S17-Ja15638	CP	%	107			70-130	Pass	
Xylenes - Total	S17-Ja15638	CP	%	108			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S17-Ja15638	CP	%	80			70-130	Pass	
TRH C6-C10	S17-Ja15638	CP	%	114			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S17-Ja15638	CP	%	101			70-130	Pass	
Cadmium	S17-Ja15638	CP	%	96			70-130	Pass	
Chromium	S17-Ja15638	CP	%	99			70-130	Pass	
Copper	S17-Ja15638	CP	%	104			70-130	Pass	
Lead	S17-Ja15638	CP	%	113			70-130	Pass	
Mercury	S17-Ja15638	CP	%	99			70-130	Pass	
Nickel	S17-Ja15638	CP	%	102			70-130	Pass	
Zinc	S17-Ja15638	CP	%	114			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S17-Ja15639	CP	%	106			70-130	Pass	
4.4'-DDE	S17-Ja15639	CP	%	103			70-130	Pass	
a-BHC	S17-Ja15639	CP	%	100			70-130	Pass	
Aldrin	S17-Ja15639	CP	%	101			70-130	Pass	
b-BHC	S17-Ja15639	CP	%	101			70-130	Pass	
d-BHC	S17-Ja15639	CP	%	124			70-130	Pass	
Dieldrin	S17-Ja15639	CP	%	115			70-130	Pass	
Endosulfan I	S17-Ja15639	CP	%	114			70-130	Pass	
Endosulfan II	S17-Ja15639	CP	%	105			70-130	Pass	
Endrin	S17-Ja15639	CP	%	104			70-130	Pass	
Endrin aldehyde	S17-Ja15639	CP	%	94			70-130	Pass	
Endrin ketone	S17-Ja15639	CP	%	78			70-130	Pass	
g-BHC (Lindane)	S17-Ja15639	CP	%	92			70-130	Pass	
Heptachlor	S17-Ja15639	CP	%	99			70-130	Pass	
Heptachlor epoxide	S17-Ja15639	CP	%	102			70-130	Pass	
Methoxychlor	S17-Ja15639	CP	%	118			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S17-Ja15600	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S17-Ja15600	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S17-Ja15600	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S17-Ja15600	CP	mg/kg	< 50	< 50	<1	30%	Pass	

Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S17-Ja15600	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S17-Ja15600	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S17-Ja15600	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S17-Ja15600	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S17-Ja15600	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S17-Ja15600	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S17-Ja15600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S17-Ja15600	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S17-Ja15600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S17-Ja15600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S17-Ja15600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S17-Ja15600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S17-Ja15600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S17-Ja15600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S17-Ja15600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S17-Ja15600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S17-Ja15600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S17-Ja15600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S17-Ja15600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S17-Ja15600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S17-Ja15600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S17-Ja15600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S17-Ja15600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S17-Ja15600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S17-Ja15600	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S17-Ja15600	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S17-Ja15600	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S17-Ja15600	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S17-Ja15600	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S17-Ja15600	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S17-Ja15600	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S17-Ja15600	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S17-Ja15600	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S17-Ja15600	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S17-Ja15600	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S17-Ja15600	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S17-Ja15600	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S17-Ja15600	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S17-Ja15600	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S17-Ja15600	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S17-Ja15600	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S17-Ja15600	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S17-Ja15600	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S17-Ja15600	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S17-Ja15600	CP	mg/kg	< 1	< 1	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S17-Ja15600	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S17-Ja15600	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S17-Ja15600	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S17-Ja15600	CP	mg/kg	2.4	2.4	1.0	30%	Pass	
Cadmium	S17-Ja15600	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S17-Ja15600	CP	mg/kg	7.7	7.9	2.0	30%	Pass	
Copper	S17-Ja15600	CP	mg/kg	7.3	8.2	12	30%	Pass	
Lead	S17-Ja15600	CP	mg/kg	14	16	17	30%	Pass	
Nickel	S17-Ja15600	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	S17-Ja15600	CP	mg/kg	22	23	5.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S17-Ja15600	CP	%	5.0	4.5	10	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S17-Ja15601	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1221	S17-Ja15601	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S17-Ja15601	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S17-Ja15601	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S17-Ja15601	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S17-Ja15601	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S17-Ja15601	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S17-Ja15606	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S17-Ja15606	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S17-Ja15606	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S17-Ja15606	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S17-Ja15606	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S17-Ja15606	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S17-Ja15606	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
2-Propanone (Acetone)	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S17-Ja15606	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Semivolatile Organics				Result 1	Result 2	RPD			
2-Methyl-4.6-dinitrophenol	S17-Ja15606	CP	mg/kg	< 5	< 5	<1	30%	Pass	
1-Chloronaphthalene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1-Naphthylamine	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichlorobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3.4-Tetrachlorobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3.5-Tetrachlorobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trichlorobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4.5-Tetrachlorobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trichlorobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Chloronaphthalene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Chlorophenol	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Methylnaphthalene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Methylphenol (o-Cresol)	S17-Ja15606	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
2-Naphthylamine	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Nitroaniline	S17-Ja15606	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2-Nitrophenol	S17-Ja15606	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2-Picoline	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.3.4.6-Tetrachlorophenol	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dichlorophenol	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dimethylphenol	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dinitrophenol	S17-Ja15606	CP	mg/kg	< 5	< 5	<1	30%	Pass	
2.4-Dinitrotoluene	S17-Ja15606	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4.5-Trichlorophenol	S17-Ja15606	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4.6-Trichlorophenol	S17-Ja15606	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.6-Dichlorophenol	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.6-Dinitrotoluene	S17-Ja15606	CP	mg/kg	< 1	< 1	<1	30%	Pass	
3&4-Methylphenol (m&p-Cresol)	S17-Ja15606	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
3-Methylcholanthrene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
3.3'-Dichlorobenzidine	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Aminobiphenyl	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Bromophenyl phenyl ether	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chloro-3-methylphenol	S17-Ja15606	CP	mg/kg	< 1	< 1	<1	30%	Pass	
4-Chlorophenyl phenyl ether	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Nitrophenol	S17-Ja15606	CP	mg/kg	< 5	< 5	<1	30%	Pass	
4.4'-DDD	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4.4'-DDE	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4.4'-DDT	S17-Ja15606	CP	mg/kg	< 1	< 1	<1	30%	Pass	
7.12-Dimethylbenz(a)anthracene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
a-BHC	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acetophenone	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aldrin	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aniline	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
b-BHC	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzyl chloride	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bis(2-chloroethoxy)methane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bis(2-chloroisopropyl)ether	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bis(2-ethylhexyl)phthalate	S17-Ja15606	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Butyl benzyl phthalate	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
d-BHC	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Di-n-butyl phthalate	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Di-n-octyl phthalate	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Semivolatile Organics				Result 1	Result 2	RPD			
Dibenz(a.j)acridine	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenzofuran	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dieldrin	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Diethyl phthalate	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dimethyl phthalate	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dimethylaminoazobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Diphenylamine	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endosulfan I	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endosulfan II	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endosulfan sulphate	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endrin	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endrin aldehyde	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endrin ketone	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
g-BHC (Lindane)	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Heptachlor	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Heptachlor epoxide	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Hexachlorobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Hexachlorobutadiene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Hexachlorocyclopentadiene	S17-Ja15606	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Hexachloroethane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methoxychlor	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
N-Nitrosodibutylamine	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
N-Nitrosodipropylamine	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
N-Nitrosopiperidine	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Nitrobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pentachlorobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pentachloronitrobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pentachlorophenol	S17-Ja15606	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Phenol	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pronamide	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trifluralin	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S17-Ja15618	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S17-Ja15618	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S17-Ja15618	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S17-Ja15618	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S17-Ja15618	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S17-Ja15618	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S17-Ja15618	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S17-Ja15618	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S17-Ja15618	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S17-Ja15618	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.2-Dichlorobenzene	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S17-Ja15618	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S17-Ja15618	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S17-Ja15618	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S17-Ja15618	CP	mg/kg	< 100	< 100	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S17-Ja15618	CP	mg/kg	2.3	2.7	16	30%	Pass	
Cadmium	S17-Ja15618	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S17-Ja15618	CP	mg/kg	7.1	7.8	10	30%	Pass	
Copper	S17-Ja15618	CP	mg/kg	16	16	3.0	30%	Pass	
Lead	S17-Ja15618	CP	mg/kg	25	25	3.0	30%	Pass	
Nickel	S17-Ja15618	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	S17-Ja15618	CP	mg/kg	34	33	3.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S17-Ja15618	CP	%	8.7	7.8	11	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S17-Ja15637	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S17-Ja15637	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S17-Ja15637	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S17-Ja15637	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S17-Ja15637	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S17-Ja15637	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S17-Ja15637	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S17-Ja15637	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S17-Ja15637	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S17-Ja15637	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S17-Ja15637	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S17-Ja15637	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S17-Ja15637	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S17-Ja15637	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S17-Ja15637	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S17-Ja15637	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S17-Ja15637	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S17-Ja15637	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S17-Ja15637	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S17-Ja15637	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S17-Ja15637	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S17-Ja15637	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S17-Ja15637	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S17-Ja15637	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S17-Ja15637	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S17-Ja15637	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S17-Ja15637	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S17-Ja15637	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S17-Ja15637	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S17-Ja15637	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S17-Ja15637	CP	mg/kg	< 100	< 100	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S17-Ja15637	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Cadmium	S17-Ja15637	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S17-Ja15637	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	S17-Ja15637	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	S17-Ja15637	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Mercury	S17-Ja15637	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S17-Ja15637	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	S17-Ja15637	CP	mg/kg	24	29	17	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S17-Ja15637	CP	%	1.6	1.9	16	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S17-Ja15638	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S17-Ja15638	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S17-Ja15638	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S17-Ja15638	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S17-Ja15638	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S17-Ja15638	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S17-Ja15638	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S17-Ja15638	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S17-Ja15638	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S17-Ja15638	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S17-Ja15638	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S17-Ja15638	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S17-Ja15638	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S17-Ja15638	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S17-Ja15638	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S17-Ja15638	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S17-Ja15638	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S17-Ja15638	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S17-Ja15638	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S17-Ja15638	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S17-Ja15638	CP	mg/kg	< 1	< 1	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference

Authorised By

Nibha Vaidya	Analytical Services Manager
Nibha Vaidya	Senior Analyst-Asbestos (NSW)
Ryan Hamilton	Senior Analyst-Inorganic (NSW)
Ryan Hamilton	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Glenn Jackson
National Operations Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

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Chatswood
NSW 2067

Attention: **Alex Ructtinger**

Report **531768-S-V2**
Project name ALEXANDRIA SCHOOL
Project ID 754-SYDEN199382
Received Date Jan 27, 2017

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**TP8 0.0-0.1** **Soil** **S17-Ja15600** **Jan 23, 2017**	**TP8 0.4-0.6** **Soil** **S17-Ja15601** **Jan 23, 2017**	**TP6 0.0-0.1** **Soil** **S17-Ja15603** **Jan 23, 2017**	**TP6 0.4-0.6** **Soil** **S17-Ja15604** **Jan 23, 2017**
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	52
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	< 50	52
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	68	65	66	67
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	2.0	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	2.2	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	2.5	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	1.7	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	1.4	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	1.9	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	1.2	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	0.9	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	1.4	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	4.3	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	0.8	< 0.5	< 0.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP8 0.0-0.1 Soil S17-Ja15600 Jan 23, 2017	TP8 0.4-0.6 Soil S17-Ja15601 Jan 23, 2017	TP6 0.0-0.1 Soil S17-Ja15603 Jan 23, 2017	TP6 0.4-0.6 Soil S17-Ja15604 Jan 23, 2017
Polycyclic Aromatic Hydrocarbons						
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	1.0	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	3.7	< 0.5	0.5
Total PAH*	0.5	mg/kg	< 0.5	18.3	< 0.5	0.5
2-Fluorobiphenyl (surr.)	1	%	102	101	101	102
p-Terphenyl-d14 (surr.)	1	%	128	120	120	123
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	-
a-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
b-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
d-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
Methoxychlor	0.2	mg/kg	< 0.2	-	< 0.2	-
Toxaphene	1	mg/kg	< 1	-	< 1	-
Dibutylchlorendate (surr.)	1	%	106	-	108	-
Tetrachloro-m-xylene (surr.)	1	%	104	-	99	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1232	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1242	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1248	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1254	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1260	0.5	mg/kg	-	< 0.5	< 0.5	-
Total PCB*	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibutylchlorendate (surr.)	1	%	-	68	108	-
Tetrachloro-m-xylene (surr.)	1	%	-	INT	99	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100

Client Sample ID			TP8 0.0-0.1	TP8 0.4-0.6	TP6 0.0-0.1	TP6 0.4-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			S17-Ja15600	S17-Ja15601	S17-Ja15603	S17-Ja15604
Date Sampled			Jan 23, 2017	Jan 23, 2017	Jan 23, 2017	Jan 23, 2017
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	2.4	< 2	2.1	9.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	7.7	< 5	6.6	18
Copper	5	mg/kg	7.3	17	6.2	54
Lead	5	mg/kg	14	34	12	79
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	7.0	< 5	10
Zinc	5	mg/kg	22	58	23	98
% Moisture	1	%	5.0	23	18	7.0

Client Sample ID			TP7 0.0-0.1	TP7 0.9-1.0	TP5 0.0-0.1	TP5 0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			S17-Ja15606	S17-Ja15608	S17-Ja15610	S17-Ja15612
Date Sampled			Jan 23, 2017	Jan 23, 2017	Jan 23, 2017	Jan 23, 2017
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	52	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	52	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	99	64	67	64
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP7 0.0-0.1 Soil S17-Ja15606 Jan 23, 2017	TP7 0.9-1.0 Soil S17-Ja15608 Jan 23, 2017	TP5 0.0-0.1 Soil S17-Ja15610 Jan 23, 2017	TP5 0.9-1.0 Soil S17-Ja15612 Jan 23, 2017
Volatile Organics						
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	-
Allyl chloride	0.5	mg/kg	< 0.5	-	-	-
Benzene	0.1	mg/kg	< 0.1	-	-	-
Bromobenzene	0.5	mg/kg	< 0.5	-	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromoform	0.5	mg/kg	< 0.5	-	-	-
Bromomethane	0.5	mg/kg	< 0.5	-	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Chloroethane	0.5	mg/kg	< 0.5	-	-	-
Chloroform	0.5	mg/kg	< 0.5	-	-	-
Chloromethane	0.5	mg/kg	< 0.5	-	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
Iodomethane	0.5	mg/kg	< 0.5	-	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Styrene	0.5	mg/kg	< 0.5	-	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Trichloroethene	0.5	mg/kg	< 0.5	-	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	-
Xylenes - Total	0.3	mg/kg	< 0.3	-	-	-
Fluorobenzene (surr.)	1	%	110	-	-	-
4-Bromofluorobenzene (surr.)	1	%	99	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	1.3	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	1.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.8	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP7 0.0-0.1 Soil S17-Ja15606 Jan 23, 2017	TP7 0.9-1.0 Soil S17-Ja15608 Jan 23, 2017	TP5 0.0-0.1 Soil S17-Ja15610 Jan 23, 2017	TP5 0.9-1.0 Soil S17-Ja15612 Jan 23, 2017
Polycyclic Aromatic Hydrocarbons						
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	0.9	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	1.0	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	1.1	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	0.7	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	0.6	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	0.7	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	1.5	< 0.5	0.6
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	0.6	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	1.5	< 0.5	0.7
Total PAH*	0.5	mg/kg	< 0.5	9.1	< 0.5	1.3
2-Fluorobiphenyl (surr.)	1	%	99	93	95	96
p-Terphenyl-d14 (surr.)	1	%	98	115	118	118
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	-
a-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
b-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
d-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
Methoxychlor	0.2	mg/kg	< 0.2	-	< 0.2	-
Toxaphene	1	mg/kg	< 1	-	< 1	-
Dibutylchlorendate (surr.)	1	%	77	-	86	-
Tetrachloro-m-xylene (surr.)	1	%	103	-	105	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1232	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1242	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1248	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1254	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1260	0.5	mg/kg	-	-	< 0.5	-

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Polychlorinated Biphenyls						
Total PCB*	0.5	mg/kg	-	-	< 0.5	-
Dibutylchlorendate (surr.)	1	%	-	-	86	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	105	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Semivolatile Organics						
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	-	-	-
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	-
1-Chloronaphthalene	0.5	mg/kg	< 0.5	-	-	-
1-Naphthylamine	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.3.4-Tetrachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.3.5-Tetrachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.4.5-Tetrachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Chloronaphthalene	0.5	mg/kg	< 0.5	-	-	-
2-Chlorophenol	0.5	mg/kg	< 0.5	-	-	-
2-Methylnaphthalene	0.5	mg/kg	< 0.5	-	-	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	-	-	-
2-Naphthylamine	0.5	mg/kg	< 0.5	-	-	-
2-Nitroaniline	1	mg/kg	< 1	-	-	-
2-Nitrophenol	1	mg/kg	< 1	-	-	-
2-Picoline	0.5	mg/kg	< 0.5	-	-	-
2.3.4.6-Tetrachlorophenol	0.5	mg/kg	< 0.5	-	-	-
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	-	-	-
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	-	-	-
2.4-Dinitrophenol	5	mg/kg	< 5	-	-	-
2.4-Dinitrotoluene	1	mg/kg	< 1	-	-	-
2.4.5-Trichlorophenol	1	mg/kg	< 1	-	-	-
2.4.6-Trichlorophenol	1.0	mg/kg	< 1	-	-	-
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	-	-	-
2.6-Dinitrotoluene	1	mg/kg	< 1	-	-	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	-	-	-
3-Methylcholanthrene	0.5	mg/kg	< 0.5	-	-	-
3.3'-Dichlorobenzidine	0.5	mg/kg	< 0.5	-	-	-
4-Aminobiphenyl	0.5	mg/kg	< 0.5	-	-	-
4-Bromophenyl phenyl ether	0.5	mg/kg	< 0.5	-	-	-
4-Chloro-3-methylphenol	1.0	mg/kg	< 1	-	-	-
4-Chlorophenyl phenyl ether	0.5	mg/kg	< 0.5	-	-	-
4-Nitrophenol	5	mg/kg	< 5	-	-	-
4.4'-DDD	0.5	mg/kg	< 0.5	-	-	-

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Semivolatile Organics						
4.4'-DDE	0.5	mg/kg	< 0.5	-	-	-
4.4'-DDT	1	mg/kg	< 1	-	-	-
7.12-Dimethylbenz(a)anthracene	0.5	mg/kg	< 0.5	-	-	-
a-BHC	0.5	mg/kg	< 0.5	-	-	-
Acenaphthene	0.5	mg/kg	< 0.5	-	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	-
Acetophenone	0.5	mg/kg	< 0.5	-	-	-
Aldrin	0.5	mg/kg	< 0.5	-	-	-
Aniline	0.5	mg/kg	< 0.5	-	-	-
Anthracene	0.5	mg/kg	< 0.5	-	-	-
b-BHC	0.5	mg/kg	< 0.5	-	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Benzyl chloride	0.5	mg/kg	< 0.5	-	-	-
Bis(2-chloroethoxy)methane	0.5	mg/kg	< 0.5	-	-	-
Bis(2-chloroisopropyl)ether	0.5	mg/kg	< 0.5	-	-	-
Bis(2-ethylhexyl)phthalate	5	mg/kg	< 5	-	-	-
Butyl benzyl phthalate	0.5	mg/kg	< 0.5	-	-	-
Chrysene	0.5	mg/kg	< 0.5	-	-	-
d-BHC	0.5	mg/kg	< 0.5	-	-	-
Di-n-butyl phthalate	0.5	mg/kg	< 0.5	-	-	-
Di-n-octyl phthalate	0.5	mg/kg	< 0.5	-	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	-	-
Dibenz(a.j)acridine	0.5	mg/kg	< 0.5	-	-	-
Dibenzofuran	0.5	mg/kg	< 0.5	-	-	-
Dieldrin	0.5	mg/kg	< 0.5	-	-	-
Diethyl phthalate	0.5	mg/kg	< 0.5	-	-	-
Dimethyl phthalate	0.5	mg/kg	< 0.5	-	-	-
Dimethylaminoazobenzene	0.5	mg/kg	< 0.5	-	-	-
Diphenylamine	0.5	mg/kg	< 0.5	-	-	-
Endosulfan I	0.5	mg/kg	< 0.5	-	-	-
Endosulfan II	0.5	mg/kg	< 0.5	-	-	-
Endosulfan sulphate	0.5	mg/kg	< 0.5	-	-	-
Endrin	0.5	mg/kg	< 0.5	-	-	-
Endrin aldehyde	0.5	mg/kg	< 0.5	-	-	-
Endrin ketone	0.5	mg/kg	< 0.5	-	-	-
Fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Fluorene	0.5	mg/kg	< 0.5	-	-	-
g-BHC (Lindane)	0.5	mg/kg	< 0.5	-	-	-
Heptachlor	0.5	mg/kg	< 0.5	-	-	-
Heptachlor epoxide	0.5	mg/kg	< 0.5	-	-	-
Hexachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Hexachlorobutadiene	0.5	mg/kg	< 0.5	-	-	-
Hexachlorocyclopentadiene	1	mg/kg	< 1	-	-	-
Hexachloroethane	0.5	mg/kg	< 0.5	-	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID			TP7 0.0-0.1	TP7 0.9-1.0	TP5 0.0-0.1	TP5 0.9-1.0
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			S17-Ja15606	S17-Ja15608	S17-Ja15610	S17-Ja15612
Date Sampled			Jan 23, 2017	Jan 23, 2017	Jan 23, 2017	Jan 23, 2017
Test/Reference	LOR	Unit				
Semivolatile Organics						
Methoxychlor	0.5	mg/kg	< 0.5	-	-	-
N-Nitrosodibutylamine	0.5	mg/kg	< 0.5	-	-	-
N-Nitrosodipropylamine	0.5	mg/kg	< 0.5	-	-	-
N-Nitrosopiperidine	0.5	mg/kg	< 0.5	-	-	-
Naphthalene	0.5	mg/kg	< 0.5	-	-	-
Nitrobenzene	0.5	mg/kg	< 0.5	-	-	-
Pentachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Pentachloronitrobenzene	0.5	mg/kg	< 0.5	-	-	-
Pentachlorophenol	1.0	mg/kg	< 1	-	-	-
Phenanthrene	0.5	mg/kg	< 0.5	-	-	-
Phenol	0.5	mg/kg	< 0.5	-	-	-
Pronamide	0.5	mg/kg	< 0.5	-	-	-
Pyrene	0.5	mg/kg	< 0.5	-	-	-
Trifluralin	0.5	mg/kg	< 0.5	-	-	-
Phenol-d6 (surr.)	1	%	96	-	-	-
Nitrobenzene-d5 (surr.)	1	%	98	-	-	-
2-Fluorobiphenyl (surr.)	1	%	99	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	2.4	4.3	3.4	3.2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	7.1	7.0	9.6	5.3
Copper	5	mg/kg	8.9	30	25	23
Lead	5	mg/kg	12	75	81	99
Mercury	0.1	mg/kg	< 0.1	0.1	< 0.1	0.1
Nickel	5	mg/kg	< 5	< 5	5.4	< 5
Zinc	5	mg/kg	28	130	100	86
% Moisture	1	%	8.5	13	10	16

Client Sample ID			TP4 0.0-0.1	TP4 0.5-0.6	TP3 0.0-0.1	TP3 0.4-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			S17-Ja15614	S17-Ja15615	S17-Ja15618	S17-Ja15619
Date Sampled			Jan 23, 2017	Jan 23, 2017	Jan 23, 2017	Jan 23, 2017
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	78
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	< 50	78
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	66	96	98	63

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP4 0.0-0.1 Soil S17-Ja15614 Jan 23, 2017	TP4 0.5-0.6 Soil S17-Ja15615 Jan 23, 2017	TP3 0.0-0.1 Soil S17-Ja15618 Jan 23, 2017	TP3 0.4-0.6 Soil S17-Ja15619 Jan 23, 2017
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	< 0.5	< 0.5	-
Allyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Bromobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromoform	0.5	mg/kg	-	< 0.5	< 0.5	-
Bromomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	< 0.5	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloroform	0.5	mg/kg	-	< 0.5	< 0.5	-
Chloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibromochloromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibromomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Iodomethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	< 0.5	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	-
Styrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	< 0.5	< 0.5	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP4 0.0-0.1 Soil S17-Ja15614 Jan 23, 2017	TP4 0.5-0.6 Soil S17-Ja15615 Jan 23, 2017	TP3 0.0-0.1 Soil S17-Ja15618 Jan 23, 2017	TP3 0.4-0.6 Soil S17-Ja15619 Jan 23, 2017
Volatile Organics						
Trichloroethene	0.5	mg/kg	-	< 0.5	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Xylenes - Total	0.3	mg/kg	-	< 0.3	< 0.3	-
Fluorobenzene (surr.)	1	%	-	109	111	-
4-Bromofluorobenzene (surr.)	1	%	-	96	98	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.9
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	2.1
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	2.4
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.3
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.4
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.6
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.9
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.8
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	1.0
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	0.8	< 0.5	1.9
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	0.7
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	0.5	< 0.5	0.7
Pyrene	0.5	mg/kg	< 0.5	0.8	< 0.5	1.9
Total PAH*	0.5	mg/kg	< 0.5	2.1	< 0.5	12.2
2-Fluorobiphenyl (surr.)	1	%	92	99	94	89
p-Terphenyl-d14 (surr.)	1	%	108	98	93	111
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	-
a-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
b-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
d-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP4 0.0-0.1 Soil S17-Ja15614 Jan 23, 2017	TP4 0.5-0.6 Soil S17-Ja15615 Jan 23, 2017	TP3 0.0-0.1 Soil S17-Ja15618 Jan 23, 2017	TP3 0.4-0.6 Soil S17-Ja15619 Jan 23, 2017
Organochlorine Pesticides						
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
Methoxychlor	0.2	mg/kg	< 0.2	-	< 0.2	-
Toxaphene	1	mg/kg	< 1	-	< 1	-
Dibutylchlorendate (surr.)	1	%	111	-	84	-
Tetrachloro-m-xylene (surr.)	1	%	108	-	99	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1232	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1242	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1248	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1254	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1260	0.5	mg/kg	-	< 0.5	< 0.5	-
Total PCB*	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibutylchlorendate (surr.)	1	%	-	79	84	-
Tetrachloro-m-xylene (surr.)	1	%	-	INT	99	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	120
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Semivolatile Organics						
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	< 5	< 5	-
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	-
1-Chloronaphthalene	0.5	mg/kg	-	< 0.5	< 0.5	-
1-Naphthylamine	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.3-Trichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.3.4-Tetrachlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.3.5-Tetrachlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.4-Trichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.2.4.5-Tetrachlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.3.5-Trichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Chloronaphthalene	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Chlorophenol	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Methylnaphthalene	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	< 0.2	< 0.2	-
2-Naphthylamine	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Nitroaniline	1	mg/kg	-	< 1	< 1	-
2-Nitrophenol	1	mg/kg	-	< 1	< 1	-
2-Picoline	0.5	mg/kg	-	< 0.5	< 0.5	-
2.3.4.6-Tetrachlorophenol	0.5	mg/kg	-	< 0.5	< 0.5	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP4 0.0-0.1 Soil S17-Ja15614 Jan 23, 2017	TP4 0.5-0.6 Soil S17-Ja15615 Jan 23, 2017	TP3 0.0-0.1 Soil S17-Ja15618 Jan 23, 2017	TP3 0.4-0.6 Soil S17-Ja15619 Jan 23, 2017
Semivolatile Organics						
2.4-Dichlorophenol	0.5	mg/kg	-	< 0.5	< 0.5	-
2.4-Dimethylphenol	0.5	mg/kg	-	< 0.5	< 0.5	-
2.4-Dinitrophenol	5	mg/kg	-	< 5	< 5	-
2.4-Dinitrotoluene	1	mg/kg	-	< 1	< 1	-
2.4.5-Trichlorophenol	1	mg/kg	-	< 1	< 1	-
2.4.6-Trichlorophenol	1.0	mg/kg	-	< 1	< 1	-
2.6-Dichlorophenol	0.5	mg/kg	-	< 0.5	< 0.5	-
2.6-Dinitrotoluene	1	mg/kg	-	< 1	< 1	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	< 0.4	< 0.4	-
3-Methylcholanthrene	0.5	mg/kg	-	< 0.5	< 0.5	-
3.3'-Dichlorobenzidine	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Aminobiphenyl	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Bromophenyl phenyl ether	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Chloro-3-methylphenol	1.0	mg/kg	-	< 1	< 1	-
4-Chlorophenyl phenyl ether	0.5	mg/kg	-	< 0.5	< 0.5	-
4-Nitrophenol	5	mg/kg	-	< 5	< 5	-
4.4'-DDD	0.5	mg/kg	-	< 0.5	< 0.5	-
4.4'-DDE	0.5	mg/kg	-	< 0.5	< 0.5	-
4.4'-DDT	1	mg/kg	-	< 1	< 1	-
7.12-Dimethylbenz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
a-BHC	0.5	mg/kg	-	< 0.5	< 0.5	-
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	-
Acetophenone	0.5	mg/kg	-	< 0.5	< 0.5	-
Aldrin	0.5	mg/kg	-	< 0.5	< 0.5	-
Aniline	0.5	mg/kg	-	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
b-BHC	0.5	mg/kg	-	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzyl chloride	0.5	mg/kg	-	< 0.5	< 0.5	-
Bis(2-chloroethoxy)methane	0.5	mg/kg	-	< 0.5	< 0.5	-
Bis(2-chloroisopropyl)ether	0.5	mg/kg	-	< 0.5	< 0.5	-
Bis(2-ethylhexyl)phthalate	5	mg/kg	-	< 5	< 5	-
Butyl benzyl phthalate	0.5	mg/kg	-	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	-
d-BHC	0.5	mg/kg	-	< 0.5	< 0.5	-
Di-n-butyl phthalate	0.5	mg/kg	-	< 0.5	< 0.5	-
Di-n-octyl phthalate	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibenz(a.j)acridine	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibenzofuran	0.5	mg/kg	-	< 0.5	< 0.5	-
Dieldrin	0.5	mg/kg	-	< 0.5	< 0.5	-
Diethyl phthalate	0.5	mg/kg	-	< 0.5	< 0.5	-
Dimethyl phthalate	0.5	mg/kg	-	< 0.5	< 0.5	-
Dimethylaminoazobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP4 0.0-0.1 Soil S17-Ja15614 Jan 23, 2017	TP4 0.5-0.6 Soil S17-Ja15615 Jan 23, 2017	TP3 0.0-0.1 Soil S17-Ja15618 Jan 23, 2017	TP3 0.4-0.6 Soil S17-Ja15619 Jan 23, 2017
Semivolatile Organics						
Diphenylamine	0.5	mg/kg	-	< 0.5	< 0.5	-
Endosulfan I	0.5	mg/kg	-	< 0.5	< 0.5	-
Endosulfan II	0.5	mg/kg	-	< 0.5	< 0.5	-
Endosulfan sulphate	0.5	mg/kg	-	< 0.5	< 0.5	-
Endrin	0.5	mg/kg	-	< 0.5	< 0.5	-
Endrin aldehyde	0.5	mg/kg	-	< 0.5	< 0.5	-
Endrin ketone	0.5	mg/kg	-	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	-	0.8	< 0.5	-
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	-
g-BHC (Lindane)	0.5	mg/kg	-	< 0.5	< 0.5	-
Heptachlor	0.5	mg/kg	-	< 0.5	< 0.5	-
Heptachlor epoxide	0.5	mg/kg	-	< 0.5	< 0.5	-
Hexachlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Hexachlorobutadiene	0.5	mg/kg	-	< 0.5	< 0.5	-
Hexachlorocyclopentadiene	1	mg/kg	-	< 1	< 1	-
Hexachloroethane	0.5	mg/kg	-	< 0.5	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Methoxychlor	0.5	mg/kg	-	< 0.5	< 0.5	-
N-Nitrosodibutylamine	0.5	mg/kg	-	< 0.5	< 0.5	-
N-Nitrosodipropylamine	0.5	mg/kg	-	< 0.5	< 0.5	-
N-Nitrosopiperidine	0.5	mg/kg	-	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	-
Nitrobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Pentachlorobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Pentachloronitrobenzene	0.5	mg/kg	-	< 0.5	< 0.5	-
Pentachlorophenol	1.0	mg/kg	-	< 1	< 1	-
Phenanthrene	0.5	mg/kg	-	0.5	< 0.5	-
Phenol	0.5	mg/kg	-	< 0.5	< 0.5	-
Pronamide	0.5	mg/kg	-	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	-	0.8	< 0.5	-
Trifluralin	0.5	mg/kg	-	< 0.5	< 0.5	-
Phenol-d6 (surr.)	1	%	-	96	92	-
Nitrobenzene-d5 (surr.)	1	%	-	102	92	-
2-Fluorobiphenyl (surr.)	1	%	-	99	94	-
Heavy Metals						
Arsenic	2	mg/kg	2.8	13	2.3	6.1
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	9.4	17	7.1	12
Copper	5	mg/kg	21	49	16	230
Lead	5	mg/kg	41	130	25	850
Mercury	0.1	mg/kg	< 0.1	0.1	< 0.1	1.0
Nickel	5	mg/kg	5.5	18	< 5	10
Zinc	5	mg/kg	52	200	34	260
% Moisture	1	%	17	9.3	8.7	9.2

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP3 1.2-1.3 Soil S17-Ja15621 Jan 23, 2017	DUP 01 Soil S17-Ja15622 Jan 23, 2017	DUP 02 Soil S17-Ja15623 Jan 23, 2017	HA02 0.0-0.1 Soil S17-Ja15631 Jan 24, 2017
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	64	65	65	67
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	0.6	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.7	0.9	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	0.6	0.6	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	0.6	0.6	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	0.8	0.9	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	0.8	0.9	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	2.8	3.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	86	91	91	91
p-Terphenyl-d14 (surr.)	1	%	105	110	109	109
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-BHC	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-BHC	0.05	mg/kg	-	-	-	< 0.05

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	TP3 1.2-1.3 Soil S17-Ja15621 Jan 23, 2017	DUP 01 Soil S17-Ja15622 Jan 23, 2017	DUP 02 Soil S17-Ja15623 Jan 23, 2017	HA02 0.0-0.1 Soil S17-Ja15631 Jan 24, 2017
Organochlorine Pesticides						
d-BHC	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.2	mg/kg	-	-	-	< 0.2
Toxaphene	1	mg/kg	-	-	-	< 1
Dibutylchlorendate (surr.)	1	%	-	-	-	99
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	96
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1242	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1248	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1254	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1260	0.5	mg/kg	-	-	-	< 0.5
Total PCB*	0.5	mg/kg	-	-	-	< 0.5
Dibutylchlorendate (surr.)	1	%	-	-	-	99
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	96
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Heavy Metals						
Arsenic	2	mg/kg	9.2	3.5	5.7	< 2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	11	6.8	12	8.5
Copper	5	mg/kg	5.4	22	38	14
Lead	5	mg/kg	26	91	210	28
Mercury	0.1	mg/kg	< 0.1	< 0.1	0.6	< 0.1
Nickel	5	mg/kg	< 5	< 5	5.5	< 5
Zinc	5	mg/kg	15	94	170	44
% Moisture	1	%	19	10	14	6.2

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	HA04 0.0-0.1 Soil S17-Ja15632 Jan 24, 2017	HA04 0.8-1.0 Soil S17-Ja15634 Jan 24, 2017	HA05 0.0-0.1 Soil S17-Ja15635 Jan 24, 2017	HA05 0.4-0.5 Soil S17-Ja15636 Jan 24, 2017
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	52	< 50	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	52	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	99	67	67	66
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
1.1.1-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2-Trichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dibromoethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloroethane	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichloropropane	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trimethylbenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Butanone (MEK)	0.5	mg/kg	< 0.5	-	-	-
2-Propanone (Acetone)	0.5	mg/kg	< 0.5	-	-	-
4-Chlorotoluene	0.5	mg/kg	< 0.5	-	-	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	< 0.5	-	-	-
Allyl chloride	0.5	mg/kg	< 0.5	-	-	-
Benzene	0.1	mg/kg	< 0.1	-	-	-
Bromobenzene	0.5	mg/kg	< 0.5	-	-	-
Bromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromodichloromethane	0.5	mg/kg	< 0.5	-	-	-
Bromoform	0.5	mg/kg	< 0.5	-	-	-
Bromomethane	0.5	mg/kg	< 0.5	-	-	-
Carbon disulfide	0.5	mg/kg	< 0.5	-	-	-
Carbon Tetrachloride	0.5	mg/kg	< 0.5	-	-	-
Chlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Chloroethane	0.5	mg/kg	< 0.5	-	-	-
Chloroform	0.5	mg/kg	< 0.5	-	-	-
Chloromethane	0.5	mg/kg	< 0.5	-	-	-
cis-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
cis-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	HA04 0.0-0.1 Soil S17-Ja15632 Jan 24, 2017	HA04 0.8-1.0 Soil S17-Ja15634 Jan 24, 2017	HA05 0.0-0.1 Soil S17-Ja15635 Jan 24, 2017	HA05 0.4-0.5 Soil S17-Ja15636 Jan 24, 2017
Volatile Organics						
Dibromochloromethane	0.5	mg/kg	< 0.5	-	-	-
Dibromomethane	0.5	mg/kg	< 0.5	-	-	-
Dichlorodifluoromethane	0.5	mg/kg	< 0.5	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
Iodomethane	0.5	mg/kg	< 0.5	-	-	-
Isopropyl benzene (Cumene)	0.5	mg/kg	< 0.5	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
Methylene Chloride	0.5	mg/kg	< 0.5	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Styrene	0.5	mg/kg	< 0.5	-	-	-
Tetrachloroethene	0.5	mg/kg	< 0.5	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
trans-1.2-Dichloroethene	0.5	mg/kg	< 0.5	-	-	-
trans-1.3-Dichloropropene	0.5	mg/kg	< 0.5	-	-	-
Trichloroethene	0.5	mg/kg	< 0.5	-	-	-
Trichlorofluoromethane	0.5	mg/kg	< 0.5	-	-	-
Vinyl chloride	0.5	mg/kg	< 0.5	-	-	-
Xylenes - Total	0.3	mg/kg	< 0.3	-	-	-
Fluorobenzene (surr.)	1	%	110	-	-	-
4-Bromofluorobenzene (surr.)	1	%	99	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	0.8	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	1.0	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.4	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	0.7	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	0.6	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	0.7	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	0.6	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	1.3	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	0.8	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	1.3	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	6	< 0.5
2-Fluorobiphenyl (surr.)	1	%	92	80	87	83
p-Terphenyl-d14 (surr.)	1	%	91	104	102	104

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	HA04 0.0-0.1 Soil S17-Ja15632 Jan 24, 2017	HA04 0.8-1.0 Soil S17-Ja15634 Jan 24, 2017	HA05 0.0-0.1 Soil S17-Ja15635 Jan 24, 2017	HA05 0.4-0.5 Soil S17-Ja15636 Jan 24, 2017
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	-
a-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
b-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
d-BHC	0.05	mg/kg	< 0.05	-	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	-
Methoxychlor	0.2	mg/kg	< 0.2	-	< 0.2	-
Toxaphene	1	mg/kg	< 1	-	< 1	-
Dibutylchlorendate (surr.)	1	%	110	-	99	-
Tetrachloro-m-xylene (surr.)	1	%	102	-	90	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Semivolatile Organics						
2-Methyl-4.6-dinitrophenol	5	mg/kg	< 5	-	-	-
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	-	-	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	-	-	-
1-Chloronaphthalene	0.5	mg/kg	< 0.5	-	-	-
1-Naphthylamine	0.5	mg/kg	< 0.5	-	-	-
1.2-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.3-Trichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.3.4-Tetrachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.3.5-Tetrachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.4-Trichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.2.4.5-Tetrachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.3.5-Trichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
1.4-Dichlorobenzene	0.5	mg/kg	< 0.5	-	-	-
2-Chloronaphthalene	0.5	mg/kg	< 0.5	-	-	-
2-Chlorophenol	0.5	mg/kg	< 0.5	-	-	-
2-Methylnaphthalene	0.5	mg/kg	< 0.5	-	-	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	< 0.2	-	-	-
2-Naphthylamine	0.5	mg/kg	< 0.5	-	-	-
2-Nitroaniline	1	mg/kg	< 1	-	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	HA04 0.0-0.1 Soil S17-Ja15632 Jan 24, 2017	HA04 0.8-1.0 Soil S17-Ja15634 Jan 24, 2017	HA05 0.0-0.1 Soil S17-Ja15635 Jan 24, 2017	HA05 0.4-0.5 Soil S17-Ja15636 Jan 24, 2017
Semivolatile Organics						
2-Nitrophenol	1	mg/kg	< 1	-	-	-
2-Picoline	0.5	mg/kg	< 0.5	-	-	-
2.3.4.6-Tetrachlorophenol	0.5	mg/kg	< 0.5	-	-	-
2.4-Dichlorophenol	0.5	mg/kg	< 0.5	-	-	-
2.4-Dimethylphenol	0.5	mg/kg	< 0.5	-	-	-
2.4-Dinitrophenol	5	mg/kg	< 5	-	-	-
2.4-Dinitrotoluene	1	mg/kg	< 1	-	-	-
2.4.5-Trichlorophenol	1	mg/kg	< 1	-	-	-
2.4.6-Trichlorophenol	1.0	mg/kg	< 1	-	-	-
2.6-Dichlorophenol	0.5	mg/kg	< 0.5	-	-	-
2.6-Dinitrotoluene	1	mg/kg	< 1	-	-	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	< 0.4	-	-	-
3-Methylcholanthrene	0.5	mg/kg	< 0.5	-	-	-
3.3'-Dichlorobenzidine	0.5	mg/kg	< 0.5	-	-	-
4-Aminobiphenyl	0.5	mg/kg	< 0.5	-	-	-
4-Bromophenyl phenyl ether	0.5	mg/kg	< 0.5	-	-	-
4-Chloro-3-methylphenol	1.0	mg/kg	< 1	-	-	-
4-Chlorophenyl phenyl ether	0.5	mg/kg	< 0.5	-	-	-
4-Nitrophenol	5	mg/kg	< 5	-	-	-
4.4'-DDD	0.5	mg/kg	< 0.5	-	-	-
4.4'-DDE	0.5	mg/kg	< 0.5	-	-	-
4.4'-DDT	1	mg/kg	< 1	-	-	-
7.12-Dimethylbenz(a)anthracene	0.5	mg/kg	< 0.5	-	-	-
a-BHC	0.5	mg/kg	< 0.5	-	-	-
Acenaphthene	0.5	mg/kg	< 0.5	-	-	-
Acenaphthylene	0.5	mg/kg	< 0.5	-	-	-
Acetophenone	0.5	mg/kg	< 0.5	-	-	-
Aldrin	0.5	mg/kg	< 0.5	-	-	-
Aniline	0.5	mg/kg	< 0.5	-	-	-
Anthracene	0.5	mg/kg	< 0.5	-	-	-
b-BHC	0.5	mg/kg	< 0.5	-	-	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	-	-	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	-	-	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	-	-	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	-	-	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Benzyl chloride	0.5	mg/kg	< 0.5	-	-	-
Bis(2-chloroethoxy)methane	0.5	mg/kg	< 0.5	-	-	-
Bis(2-chloroisopropyl)ether	0.5	mg/kg	< 0.5	-	-	-
Bis(2-ethylhexyl)phthalate	5	mg/kg	< 5	-	-	-
Butyl benzyl phthalate	0.5	mg/kg	< 0.5	-	-	-
Chrysene	0.5	mg/kg	< 0.5	-	-	-
d-BHC	0.5	mg/kg	< 0.5	-	-	-
Di-n-butyl phthalate	0.5	mg/kg	< 0.5	-	-	-
Di-n-octyl phthalate	0.5	mg/kg	< 0.5	-	-	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	-	-	-
Dibenz(a.j)acridine	0.5	mg/kg	< 0.5	-	-	-
Dibenzofuran	0.5	mg/kg	< 0.5	-	-	-
Dieldrin	0.5	mg/kg	< 0.5	-	-	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	HA04 0.0-0.1 Soil S17-Ja15632 Jan 24, 2017	HA04 0.8-1.0 Soil S17-Ja15634 Jan 24, 2017	HA05 0.0-0.1 Soil S17-Ja15635 Jan 24, 2017	HA05 0.4-0.5 Soil S17-Ja15636 Jan 24, 2017
Semivolatile Organics						
Diethyl phthalate	0.5	mg/kg	< 0.5	-	-	-
Dimethyl phthalate	0.5	mg/kg	< 0.5	-	-	-
Dimethylaminoazobenzene	0.5	mg/kg	< 0.5	-	-	-
Diphenylamine	0.5	mg/kg	< 0.5	-	-	-
Endosulfan I	0.5	mg/kg	< 0.5	-	-	-
Endosulfan II	0.5	mg/kg	< 0.5	-	-	-
Endosulfan sulphate	0.5	mg/kg	< 0.5	-	-	-
Endrin	0.5	mg/kg	< 0.5	-	-	-
Endrin aldehyde	0.5	mg/kg	< 0.5	-	-	-
Endrin ketone	0.5	mg/kg	< 0.5	-	-	-
Fluoranthene	0.5	mg/kg	< 0.5	-	-	-
Fluorene	0.5	mg/kg	< 0.5	-	-	-
g-BHC (Lindane)	0.5	mg/kg	< 0.5	-	-	-
Heptachlor	0.5	mg/kg	< 0.5	-	-	-
Heptachlor epoxide	0.5	mg/kg	< 0.5	-	-	-
Hexachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Hexachlorobutadiene	0.5	mg/kg	< 0.5	-	-	-
Hexachlorocyclopentadiene	1	mg/kg	< 1	-	-	-
Hexachloroethane	0.5	mg/kg	< 0.5	-	-	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	-	-	-
Methoxychlor	0.5	mg/kg	< 0.5	-	-	-
N-Nitrosodibutylamine	0.5	mg/kg	< 0.5	-	-	-
N-Nitrosodipropylamine	0.5	mg/kg	< 0.5	-	-	-
N-Nitrosopiperidine	0.5	mg/kg	< 0.5	-	-	-
Naphthalene	0.5	mg/kg	< 0.5	-	-	-
Nitrobenzene	0.5	mg/kg	< 0.5	-	-	-
Pentachlorobenzene	0.5	mg/kg	< 0.5	-	-	-
Pentachloronitrobenzene	0.5	mg/kg	< 0.5	-	-	-
Pentachlorophenol	1.0	mg/kg	< 1	-	-	-
Phenanthrene	0.5	mg/kg	< 0.5	-	-	-
Phenol	0.5	mg/kg	< 0.5	-	-	-
Pronamide	0.5	mg/kg	< 0.5	-	-	-
Pyrene	0.5	mg/kg	< 0.5	-	-	-
Trifluralin	0.5	mg/kg	< 0.5	-	-	-
Phenol-d6 (surr.)	1	%	90	-	-	-
Nitrobenzene-d5 (surr.)	1	%	93	-	-	-
2-Fluorobiphenyl (surr.)	1	%	92	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	< 2	< 2	2.8	2.1
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	12	7.8	10	8.6
Copper	5	mg/kg	37	34	21	32
Lead	5	mg/kg	81	110	60	48
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	7.5	< 5	7.9	7.4
Zinc	5	mg/kg	330	400	75	90
% Moisture	1	%	18	5.1	7.7	9.5

Client Sample ID			HA06 0.0-0.1	HA07 0.0-0.1	HA01 0.0-0.1	DUP 04
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins | mgt Sample No.			S17-Ja15637	S17-Ja15638	S17-Ja15639	S17-Ja15643
Date Sampled			Jan 24, 2017	Jan 24, 2017	Jan 24, 2017	Jan 24, 2017
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	66	66	100	64
Volatile Organics						
1.1-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
1.1.1-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.1.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2-Trichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.1.2.2-Tetrachloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dibromoethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloroethane	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.2.4-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichloropropane	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trimethylbenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Butanone (MEK)	0.5	mg/kg	-	-	< 0.5	-
2-Propanone (Acetone)	0.5	mg/kg	-	-	< 0.5	-
4-Chlorotoluene	0.5	mg/kg	-	-	< 0.5	-
4-Methyl-2-pentanone (MIBK)	0.5	mg/kg	-	-	< 0.5	-
Allyl chloride	0.5	mg/kg	-	-	< 0.5	-
Benzene	0.1	mg/kg	-	-	< 0.1	-
Bromobenzene	0.5	mg/kg	-	-	< 0.5	-
Bromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromodichloromethane	0.5	mg/kg	-	-	< 0.5	-
Bromoform	0.5	mg/kg	-	-	< 0.5	-
Bromomethane	0.5	mg/kg	-	-	< 0.5	-
Carbon disulfide	0.5	mg/kg	-	-	< 0.5	-
Carbon Tetrachloride	0.5	mg/kg	-	-	< 0.5	-
Chlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Chloroethane	0.5	mg/kg	-	-	< 0.5	-
Chloroform	0.5	mg/kg	-	-	< 0.5	-
Chloromethane	0.5	mg/kg	-	-	< 0.5	-
cis-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
cis-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	HA06 0.0-0.1 Soil S17-Ja15637 Jan 24, 2017	HA07 0.0-0.1 Soil S17-Ja15638 Jan 24, 2017	HA01 0.0-0.1 Soil S17-Ja15639 Jan 24, 2017	DUP 04 Soil S17-Ja15643 Jan 24, 2017
Volatile Organics						
Dibromochloromethane	0.5	mg/kg	-	-	< 0.5	-
Dibromomethane	0.5	mg/kg	-	-	< 0.5	-
Dichlorodifluoromethane	0.5	mg/kg	-	-	< 0.5	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
Iodomethane	0.5	mg/kg	-	-	< 0.5	-
Isopropyl benzene (Cumene)	0.5	mg/kg	-	-	< 0.5	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
Methylene Chloride	0.5	mg/kg	-	-	< 0.5	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Styrene	0.5	mg/kg	-	-	< 0.5	-
Tetrachloroethene	0.5	mg/kg	-	-	< 0.5	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
trans-1.2-Dichloroethene	0.5	mg/kg	-	-	< 0.5	-
trans-1.3-Dichloropropene	0.5	mg/kg	-	-	< 0.5	-
Trichloroethene	0.5	mg/kg	-	-	< 0.5	-
Trichlorofluoromethane	0.5	mg/kg	-	-	< 0.5	-
Vinyl chloride	0.5	mg/kg	-	-	< 0.5	-
Xylenes - Total	0.3	mg/kg	-	-	< 0.3	-
Fluorobenzene (surr.)	1	%	-	-	115	-
4-Bromofluorobenzene (surr.)	1	%	-	-	100	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	84	88	84	86
p-Terphenyl-d14 (surr.)	1	%	104	103	98	103

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	HA06 0.0-0.1 Soil S17-Ja15637 Jan 24, 2017	HA07 0.0-0.1 Soil S17-Ja15638 Jan 24, 2017	HA01 0.0-0.1 Soil S17-Ja15639 Jan 24, 2017	DUP 04 Soil S17-Ja15643 Jan 24, 2017
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
a-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
b-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
d-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Toxaphene	1	mg/kg	< 1	< 1	< 1	-
Dibutylchlorendate (surr.)	1	%	108	96	81	-
Tetrachloro-m-xylene (surr.)	1	%	94	98	104	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1232	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1242	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1248	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1254	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1260	0.5	mg/kg	-	-	< 0.5	-
Total PCB*	0.5	mg/kg	-	-	< 0.5	-
Dibutylchlorendate (surr.)	1	%	-	-	81	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	104	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
Semivolatile Organics						
2-Methyl-4.6-dinitrophenol	5	mg/kg	-	-	< 5	-
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	-
1-Chloronaphthalene	0.5	mg/kg	-	-	< 0.5	-
1-Naphthylamine	0.5	mg/kg	-	-	< 0.5	-
1.2-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2.3-Trichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2.3.4-Tetrachlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2.3.5-Tetrachlorobenzene	0.5	mg/kg	-	-	< 0.5	-

Client Sample ID Sample Matrix Eurofins | mgt Sample No. Date Sampled Test/Reference	LOR	Unit	HA06 0.0-0.1 Soil S17-Ja15637 Jan 24, 2017	HA07 0.0-0.1 Soil S17-Ja15638 Jan 24, 2017	HA01 0.0-0.1 Soil S17-Ja15639 Jan 24, 2017	DUP 04 Soil S17-Ja15643 Jan 24, 2017
Semivolatile Organics						
1.2.4-Trichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.2.4.5-Tetrachlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.3.5-Trichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
1.4-Dichlorobenzene	0.5	mg/kg	-	-	< 0.5	-
2-Chloronaphthalene	0.5	mg/kg	-	-	< 0.5	-
2-Chlorophenol	0.5	mg/kg	-	-	< 0.5	-
2-Methylnaphthalene	0.5	mg/kg	-	-	< 0.5	-
2-Methylphenol (o-Cresol)	0.2	mg/kg	-	-	< 0.2	-
2-Naphthylamine	0.5	mg/kg	-	-	< 0.5	-
2-Nitroaniline	1	mg/kg	-	-	< 1	-
2-Nitrophenol	1	mg/kg	-	-	< 1	-
2-Picoline	0.5	mg/kg	-	-	< 0.5	-
2.3.4.6-Tetrachlorophenol	0.5	mg/kg	-	-	< 0.5	-
2.4-Dichlorophenol	0.5	mg/kg	-	-	< 0.5	-
2.4-Dimethylphenol	0.5	mg/kg	-	-	< 0.5	-
2.4-Dinitrophenol	5	mg/kg	-	-	< 5	-
2.4-Dinitrotoluene	1	mg/kg	-	-	< 1	-
2.4.5-Trichlorophenol	1	mg/kg	-	-	< 1	-
2.4.6-Trichlorophenol	1.0	mg/kg	-	-	< 1	-
2.6-Dichlorophenol	0.5	mg/kg	-	-	< 0.5	-
2.6-Dinitrotoluene	1	mg/kg	-	-	< 1	-
3&4-Methylphenol (m&p-Cresol)	0.4	mg/kg	-	-	< 0.4	-
3-Methylcholanthrene	0.5	mg/kg	-	-	< 0.5	-
3.3'-Dichlorobenzidine	0.5	mg/kg	-	-	< 0.5	-
4-Aminobiphenyl	0.5	mg/kg	-	-	< 0.5	-
4-Bromophenyl phenyl ether	0.5	mg/kg	-	-	< 0.5	-
4-Chloro-3-methylphenol	1.0	mg/kg	-	-	< 1	-
4-Chlorophenyl phenyl ether	0.5	mg/kg	-	-	< 0.5	-
4-Nitrophenol	5	mg/kg	-	-	< 5	-
4.4'-DDD	0.5	mg/kg	-	-	< 0.5	-
4.4'-DDE	0.5	mg/kg	-	-	< 0.5	-
4.4'-DDT	1	mg/kg	-	-	< 1	-
7.12-Dimethylbenz(a)anthracene	0.5	mg/kg	-	-	< 0.5	-
a-BHC	0.5	mg/kg	-	-	< 0.5	-
Acenaphthene	0.5	mg/kg	-	-	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	-
Acetophenone	0.5	mg/kg	-	-	< 0.5	-
Aldrin	0.5	mg/kg	-	-	< 0.5	-
Aniline	0.5	mg/kg	-	-	< 0.5	-
Anthracene	0.5	mg/kg	-	-	< 0.5	-
b-BHC	0.5	mg/kg	-	-	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Benzyl chloride	0.5	mg/kg	-	-	< 0.5	-
Bis(2-chloroethoxy)methane	0.5	mg/kg	-	-	< 0.5	-

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Semivolatile Organics						
Bis(2-chloroisopropyl)ether	0.5	mg/kg	-	-	< 0.5	-
Bis(2-ethylhexyl)phthalate	5	mg/kg	-	-	< 5	-
Butyl benzyl phthalate	0.5	mg/kg	-	-	< 0.5	-
Chrysene	0.5	mg/kg	-	-	< 0.5	-
d-BHC	0.5	mg/kg	-	-	< 0.5	-
Di-n-butyl phthalate	0.5	mg/kg	-	-	< 0.5	-
Di-n-octyl phthalate	0.5	mg/kg	-	-	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	< 0.5	-
Dibenz(a.j)acridine	0.5	mg/kg	-	-	< 0.5	-
Dibenzofuran	0.5	mg/kg	-	-	< 0.5	-
Dieldrin	0.5	mg/kg	-	-	< 0.5	-
Diethyl phthalate	0.5	mg/kg	-	-	< 0.5	-
Dimethyl phthalate	0.5	mg/kg	-	-	< 0.5	-
Dimethylaminoazobenzene	0.5	mg/kg	-	-	< 0.5	-
Diphenylamine	0.5	mg/kg	-	-	< 0.5	-
Endosulfan I	0.5	mg/kg	-	-	< 0.5	-
Endosulfan II	0.5	mg/kg	-	-	< 0.5	-
Endosulfan sulphate	0.5	mg/kg	-	-	< 0.5	-
Endrin	0.5	mg/kg	-	-	< 0.5	-
Endrin aldehyde	0.5	mg/kg	-	-	< 0.5	-
Endrin ketone	0.5	mg/kg	-	-	< 0.5	-
Fluoranthene	0.5	mg/kg	-	-	< 0.5	-
Fluorene	0.5	mg/kg	-	-	< 0.5	-
g-BHC (Lindane)	0.5	mg/kg	-	-	< 0.5	-
Heptachlor	0.5	mg/kg	-	-	< 0.5	-
Heptachlor epoxide	0.5	mg/kg	-	-	< 0.5	-
Hexachlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Hexachlorobutadiene	0.5	mg/kg	-	-	< 0.5	-
Hexachlorocyclopentadiene	1	mg/kg	-	-	< 1	-
Hexachloroethane	0.5	mg/kg	-	-	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	-
Methoxychlor	0.5	mg/kg	-	-	< 0.5	-
N-Nitrosodibutylamine	0.5	mg/kg	-	-	< 0.5	-
N-Nitrosodipropylamine	0.5	mg/kg	-	-	< 0.5	-
N-Nitrosopiperidine	0.5	mg/kg	-	-	< 0.5	-
Naphthalene	0.5	mg/kg	-	-	< 0.5	-
Nitrobenzene	0.5	mg/kg	-	-	< 0.5	-
Pentachlorobenzene	0.5	mg/kg	-	-	< 0.5	-
Pentachloronitrobenzene	0.5	mg/kg	-	-	< 0.5	-
Pentachlorophenol	1.0	mg/kg	-	-	< 1	-
Phenanthrene	0.5	mg/kg	-	-	< 0.5	-
Phenol	0.5	mg/kg	-	-	< 0.5	-
Pronamide	0.5	mg/kg	-	-	< 0.5	-
Pyrene	0.5	mg/kg	-	-	< 0.5	-
Trifluralin	0.5	mg/kg	-	-	< 0.5	-
Phenol-d6 (surr.)	1	%	-	-	86	-
Nitrobenzene-d5 (surr.)	1	%	-	-	85	-
2-Fluorobiphenyl (surr.)	1	%	-	-	84	-

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Heavy Metals						
Arsenic	2	mg/kg	< 2	2.2	2.7	4.3
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	< 5	8.2	12	8.7
Copper	5	mg/kg	< 5	13	31	29
Lead	5	mg/kg	< 5	19	74	86
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	< 5	6.5	5.9
Zinc	5	mg/kg	24	28	150	120
% Moisture	1	%	1.6	3.6	3.9	4.7

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins | mgt Suite B4			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Feb 02, 2017	14 Day
- Method: TRH C6-C36 - LTM-ORG-2010			
BTEX	Sydney	Feb 02, 2017	14 Day
- Method: TRH C6-C40 - LTM-ORG-2010			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Feb 02, 2017	14 Day
- Method: TRH C6-C40 - LTM-ORG-2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Feb 02, 2017	14 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Feb 02, 2017	14 Day
- Method: TRH C6-C40 - LTM-ORG-2010			
Volatile Organics	Sydney	Feb 02, 2017	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			
Organochlorine Pesticides	Sydney	Feb 02, 2017	14 Day
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Feb 02, 2017	28 Day
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Semivolatile Organics	Sydney	Feb 02, 2017	14 Day
- Method: USEPA 8270 Semivolatile Organics			
Metals M8	Sydney	Feb 02, 2017	28 Day
- Method: LTM-MET-3040_R0 TOTAL AND DISSOLVED METALS AND MERCURY IN WATERS BY ICP-MS			
% Moisture	Sydney	Jan 27, 2017	14 Day
- Method: LTM-GEN-7080 Moisture			

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Company Name: Coffey Geotechnics Pty Ltd Chatswood
Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
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NSW 2067

Project Name: ALEXANDRIA SCHOOL
Project ID: 754-SYDEN199382

Order No.:
Report #: 531768
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: Jan 27, 2017 12:51 PM
Due: Feb 3, 2017
Priority: 5 Day
Contact Name: Alex Ructtinger

Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail						Asbestos Absence /Presence	HOLD	TRH C6-C9	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Volatile Organics	Moisture Set	Semivolatile Organics	Eurofins | mgt Suite B4
Melbourne Laboratory - NATA Site # 1254 & 14271																
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																
Perth Laboratory - NATA Site # 18217																
External Laboratory																
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**											
1	TP8 0.0-0.1	Jan 23, 2017		Soil	S17-Ja15600				X		X			X		X
2	TP8 0.4-0.6	Jan 23, 2017		Soil	S17-Ja15601					X	X			X		X
3	TP8 0.8-1.0	Jan 23, 2017		Soil	S17-Ja15602		X									
4	TP6 0.0-0.1	Jan 23, 2017		Soil	S17-Ja15603				X	X	X			X		X
5	TP6 0.4-0.6	Jan 23, 2017		Soil	S17-Ja15604						X			X		X
6	TP6 0.9-1.0	Jan 23, 2017		Soil	S17-Ja15605		X									
7	TP7 0.0-0.1	Jan 23, 2017		Soil	S17-Ja15606	X			X		X		X	X	X	X
8	TP7 0.4-0.6	Jan 23, 2017		Soil	S17-Ja15607		X									
9	TP7 0.9-1.0	Jan 23, 2017		Soil	S17-Ja15608						X			X		X

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Melbourne Laboratory - NATA Site # 1254 & 14271																
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																
Perth Laboratory - NATA Site # 18217																
10	TP7 2.0-2.2	Jan 23, 2017		Soil	S17-Ja15609		X									
11	TP5 0.0-0.1	Jan 23, 2017		Soil	S17-Ja15610	X			X	X	X			X		X
12	TP5 0.4-0.6	Jan 23, 2017		Soil	S17-Ja15611	X										
13	TP5 0.9-1.0	Jan 23, 2017		Soil	S17-Ja15612	X					X			X		X
14	TP5 1.8-2.0	Jan 23, 2017		Soil	S17-Ja15613		X									
15	TP4 0.0-0.1	Jan 23, 2017		Soil	S17-Ja15614				X		X			X		X
16	TP4 0.5-0.6	Jan 23, 2017		Soil	S17-Ja15615					X	X		X	X	X	X
17	TP4 0.8-1.0	Jan 23, 2017		Soil	S17-Ja15616		X									
18	TP4 1.3-1.5	Jan 23, 2017		Soil	S17-Ja15617		X									
19	TP3 0.0-0.1	Jan 23, 2017		Soil	S17-Ja15618				X	X	X		X	X	X	X
20	TP3 0.4-0.6	Jan 23, 2017		Soil	S17-Ja15619						X			X		X
21	TP3 0.9-1.0	Jan 23, 2017		Soil	S17-Ja15620		X									

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Sample Detail						Asbestos Absence / Presence	HOLD	TRH C6-C9	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Volatile Organics	Moisture Set	Semivolatile Organics	Eurofins | mgt Suite B4
Melbourne Laboratory - NATA Site # 1254 & 14271																
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																
Perth Laboratory - NATA Site # 18217																
22	TP3 1.2-1.3	Jan 23, 2017		Soil	S17-Ja15621						X			X		X
23	DUP 01	Jan 23, 2017		Soil	S17-Ja15622						X			X		X
24	DUP 02	Jan 23, 2017		Soil	S17-Ja15623						X			X		X
25	DUP 03	Jan 23, 2017		Soil	S17-Ja15624		X									
26	TB1	Jan 23, 2017		Water	S17-Ja15625			X				X				
27	TS1	Jan 23, 2017		Water	S17-Ja15626			X				X				
28	TP6-ACM	Jan 23, 2017		Other	S17-Ja15627		X									
29	TP7-ACM	Jan 23, 2017		Other	S17-Ja15628		X									
30	APS-1	Jan 23, 2017		Other	S17-Ja15629	X										
31	TPS-ACM	Jan 23, 2017		Other	S17-Ja15630		X									
32	HA02 0.0-0.1	Jan 24, 2017		Soil	S17-Ja15631	X			X	X	X			X		X
33	HA04 0.0-0.1	Jan 24, 2017		Soil	S17-Ja15632	X			X		X		X	X	X	X

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Melbourne Laboratory - NATA Site # 1254 & 14271																
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																
Perth Laboratory - NATA Site # 18217																
34	HA04 0.5-0.6	Jan 24, 2017		Soil	S17-Ja15633		X									
35	HA04 0.8-1.0	Jan 24, 2017		Soil	S17-Ja15634						X			X		X
36	HA05 0.0-0.1	Jan 24, 2017		Soil	S17-Ja15635				X		X			X		X
37	HA05 0.4-0.5	Jan 24, 2017		Soil	S17-Ja15636						X			X		X
38	HA06 0.0-0.1	Jan 24, 2017		Soil	S17-Ja15637				X		X			X		X
39	HA07 0.0-0.1	Jan 24, 2017		Soil	S17-Ja15638	X			X		X			X		X
40	HA01 0.0-0.1	Jan 24, 2017		Soil	S17-Ja15639				X	X	X		X	X	X	X
41	TB2	Jan 24, 2017		Water	S17-Ja15640			X				X				
42	TS2	Jan 24, 2017		Water	S17-Ja15641			X				X				
43	RINSATE	Jan 24, 2017		Water	S17-Ja15642						X					X
44	DUP 04	Jan 24, 2017		Soil	S17-Ja15643						X			X		X
Test Counts						8	13	4	12	7	25	4	5	24	5	25

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Advice.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Nephelometric Turbidity Units

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 50-150%-Phenols & PFASs 20-130%

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
1.1.1-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.1.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2-Trichloroethane	mg/kg	< 0.5			0.5	Pass	
1.1.2.2-Tetrachloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dibromoethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloroethane	mg/kg	< 0.5			0.5	Pass	
1.2-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichloropropane	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichloropropane	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trimethylbenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Butanone (MEK)	mg/kg	< 0.5			0.5	Pass	
2-Propanone (Acetone)	mg/kg	< 0.5			0.5	Pass	
4-Chlorotoluene	mg/kg	< 0.5			0.5	Pass	
4-Methyl-2-pentanone (MIBK)	mg/kg	< 0.5			0.5	Pass	
Allyl chloride	mg/kg	< 0.5			0.5	Pass	
Benzene	mg/kg	< 0.1			0.1	Pass	
Bromobenzene	mg/kg	< 0.5			0.5	Pass	
Bromochloromethane	mg/kg	< 0.5			0.5	Pass	
Bromodichloromethane	mg/kg	< 0.5			0.5	Pass	
Bromoform	mg/kg	< 0.5			0.5	Pass	
Bromomethane	mg/kg	< 0.5			0.5	Pass	
Carbon disulfide	mg/kg	< 0.5			0.5	Pass	
Carbon Tetrachloride	mg/kg	< 0.5			0.5	Pass	
Chlorobenzene	mg/kg	< 0.5			0.5	Pass	
Chloroethane	mg/kg	< 0.5			0.5	Pass	
Chloroform	mg/kg	< 0.5			0.5	Pass	
Chloromethane	mg/kg	< 0.5			0.5	Pass	
cis-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
cis-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Dibromochloromethane	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Dibromomethane	mg/kg	< 0.5			0.5	Pass	
Dichlorodifluoromethane	mg/kg	< 0.5			0.5	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
Iodomethane	mg/kg	< 0.5			0.5	Pass	
Isopropyl benzene (Cumene)	mg/kg	< 0.5			0.5	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
Methylene Chloride	mg/kg	< 0.5			0.5	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Styrene	mg/kg	< 0.5			0.5	Pass	
Tetrachloroethene	mg/kg	< 0.5			0.5	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
trans-1.2-Dichloroethene	mg/kg	< 0.5			0.5	Pass	
trans-1.3-Dichloropropene	mg/kg	< 0.5			0.5	Pass	
Trichloroethene	mg/kg	< 0.5			0.5	Pass	
Trichlorofluoromethane	mg/kg	< 0.5			0.5	Pass	
Vinyl chloride	mg/kg	< 0.5			0.5	Pass	
Xylenes - Total	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 1			1	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB*	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Semivolatile Organics							
2-Methyl-4.6-dinitrophenol	mg/kg	< 5			5	Pass	
1-Chloronaphthalene	mg/kg	< 0.5			0.5	Pass	
1-Naphthylamine	mg/kg	< 0.5			0.5	Pass	
1.2-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2.3-Trichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2.3.4-Tetrachlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2.3.5-Tetrachlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2.4-Trichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.2.4.5-Tetrachlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.3.5-Trichlorobenzene	mg/kg	< 0.5			0.5	Pass	
1.4-Dichlorobenzene	mg/kg	< 0.5			0.5	Pass	
2-Chloronaphthalene	mg/kg	< 0.5			0.5	Pass	
2-Chlorophenol	mg/kg	< 0.5			0.5	Pass	
2-Methylnaphthalene	mg/kg	< 0.5			0.5	Pass	
2-Methylphenol (o-Cresol)	mg/kg	< 0.2			0.2	Pass	
2-Naphthylamine	mg/kg	< 0.5			0.5	Pass	
2-Nitroaniline	mg/kg	< 1			1	Pass	
2-Nitrophenol	mg/kg	< 1			1	Pass	
2-Picoline	mg/kg	< 0.5			0.5	Pass	
2.3.4.6-Tetrachlorophenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dimethylphenol	mg/kg	< 0.5			0.5	Pass	
2.4-Dinitrophenol	mg/kg	< 5			5	Pass	
2.4-Dinitrotoluene	mg/kg	< 1			1	Pass	
2.4.5-Trichlorophenol	mg/kg	< 1			1	Pass	
2.4.6-Trichlorophenol	mg/kg	< 1			1.0	Pass	
2.6-Dichlorophenol	mg/kg	< 0.5			0.5	Pass	
2.6-Dinitrotoluene	mg/kg	< 1			1	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
3&4-Methylphenol (m&p-Cresol)	mg/kg	< 0.4			0.4	Pass	
3-Methylcholanthrene	mg/kg	< 0.5			0.5	Pass	
3.3'-Dichlorobenzidine	mg/kg	< 0.5			0.5	Pass	
4-Aminobiphenyl	mg/kg	< 0.5			0.5	Pass	
4-Bromophenyl phenyl ether	mg/kg	< 0.5			0.5	Pass	
4-Chloro-3-methylphenol	mg/kg	< 1			1.0	Pass	
4-Chlorophenyl phenyl ether	mg/kg	< 0.5			0.5	Pass	
4-Nitrophenol	mg/kg	< 5			5	Pass	
4.4'-DDD	mg/kg	< 0.5			0.5	Pass	
4.4'-DDE	mg/kg	< 0.5			0.5	Pass	
4.4'-DDT	mg/kg	< 1			1	Pass	
7.12-Dimethylbenz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
a-BHC	mg/kg	< 0.5			0.5	Pass	
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Acetophenone	mg/kg	< 0.5			0.5	Pass	
Aldrin	mg/kg	< 0.5			0.5	Pass	
Aniline	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
b-BHC	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzyl chloride	mg/kg	< 0.5			0.5	Pass	
Bis(2-chloroethoxy)methane	mg/kg	< 0.5			0.5	Pass	
Bis(2-chloroisopropyl)ether	mg/kg	< 0.5			0.5	Pass	
Bis(2-ethylhexyl)phthalate	mg/kg	< 5			5	Pass	
Butyl benzyl phthalate	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
d-BHC	mg/kg	< 0.5			0.5	Pass	
Di-n-butyl phthalate	mg/kg	< 0.5			0.5	Pass	
Di-n-octyl phthalate	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.j)acridine	mg/kg	< 0.5			0.5	Pass	
Dibenzofuran	mg/kg	< 0.5			0.5	Pass	
Dieldrin	mg/kg	< 0.5			0.5	Pass	
Diethyl phthalate	mg/kg	< 0.5			0.5	Pass	
Dimethyl phthalate	mg/kg	< 0.5			0.5	Pass	
Dimethylaminoazobenzene	mg/kg	< 0.5			0.5	Pass	
Diphenylamine	mg/kg	< 0.5			0.5	Pass	
Endosulfan I	mg/kg	< 0.5			0.5	Pass	
Endosulfan II	mg/kg	< 0.5			0.5	Pass	
Endosulfan sulphate	mg/kg	< 0.5			0.5	Pass	
Endrin	mg/kg	< 0.5			0.5	Pass	
Endrin aldehyde	mg/kg	< 0.5			0.5	Pass	
Endrin ketone	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
g-BHC (Lindane)	mg/kg	< 0.5			0.5	Pass	
Heptachlor	mg/kg	< 0.5			0.5	Pass	
Heptachlor epoxide	mg/kg	< 0.5			0.5	Pass	
Hexachlorobenzene	mg/kg	< 0.5			0.5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Hexachlorobutadiene	mg/kg	< 0.5			0.5	Pass	
Hexachlorocyclopentadiene	mg/kg	< 1			1	Pass	
Hexachloroethane	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Methoxychlor	mg/kg	< 0.5			0.5	Pass	
N-Nitrosodibutylamine	mg/kg	< 0.5			0.5	Pass	
N-Nitrosodipropylamine	mg/kg	< 0.5			0.5	Pass	
N-Nitrosopiperidine	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Nitrobenzene	mg/kg	< 0.5			0.5	Pass	
Pentachlorobenzene	mg/kg	< 0.5			0.5	Pass	
Pentachloronitrobenzene	mg/kg	< 0.5			0.5	Pass	
Pentachlorophenol	mg/kg	< 1			1.0	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Phenol	mg/kg	< 0.5			0.5	Pass	
Pronamide	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Trifluralin	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	123			70-130	Pass	
TRH C10-C14	%	89			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	116			70-130	Pass	
Toluene	%	112			70-130	Pass	
Ethylbenzene	%	110			70-130	Pass	
m&p-Xylenes	%	114			70-130	Pass	
o-Xylene	%	113			70-130	Pass	
Xylenes - Total	%	113			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
1.1-Dichloroethane	%	114			70-130	Pass	
1.1-Dichloroethene	%	112			70-130	Pass	
1.1.1-Trichloroethane	%	110			70-130	Pass	
1.1.1.2-Tetrachloroethane	%	91			70-130	Pass	
1.1.2-Trichloroethane	%	110			70-130	Pass	
1.1.2.2-Tetrachloroethane	%	98			70-130	Pass	
1.2-Dibromoethane	%	109			70-130	Pass	
1.2-Dichlorobenzene	%	115			70-130	Pass	
1.2-Dichloroethane	%	108			70-130	Pass	
1.2-Dichloropropane	%	110			70-130	Pass	
1.2.3-Trichloropropane	%	117			70-130	Pass	
1.2.4-Trimethylbenzene	%	115			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.3-Dichlorobenzene	%	115			70-130	Pass	
1.3-Dichloropropane	%	111			70-130	Pass	
1.3.5-Trimethylbenzene	%	114			70-130	Pass	
1.4-Dichlorobenzene	%	115			70-130	Pass	
2-Butanone (MEK)	%	112			70-130	Pass	
2-Propanone (Acetone)	%	125			70-130	Pass	
4-Chlorotoluene	%	114			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	%	116			70-130	Pass	
Allyl chloride	%	103			70-130	Pass	
Benzene	%	112			70-130	Pass	
Bromobenzene	%	114			70-130	Pass	
Bromochloromethane	%	109			70-130	Pass	
Bromodichloromethane	%	104			70-130	Pass	
Bromoform	%	88			70-130	Pass	
Carbon disulfide	%	106			70-130	Pass	
Carbon Tetrachloride	%	108			70-130	Pass	
Chlorobenzene	%	96			70-130	Pass	
Chloroethane	%	94			70-130	Pass	
Chloroform	%	113			70-130	Pass	
Chloromethane	%	120			70-130	Pass	
cis-1.2-Dichloroethene	%	115			70-130	Pass	
cis-1.3-Dichloropropene	%	104			70-130	Pass	
Dibromochloromethane	%	102			70-130	Pass	
Dibromomethane	%	111			70-130	Pass	
Dichlorodifluoromethane	%	121			70-130	Pass	
Ethylbenzene	%	95			70-130	Pass	
Iodomethane	%	71			70-130	Pass	
Isopropyl benzene (Cumene)	%	94			70-130	Pass	
m&p-Xylenes	%	94			70-130	Pass	
Methylene Chloride	%	101			70-130	Pass	
o-Xylene	%	94			70-130	Pass	
Styrene	%	94			70-130	Pass	
Tetrachloroethene	%	111			70-130	Pass	
Toluene	%	112			70-130	Pass	
trans-1.2-Dichloroethene	%	115			70-130	Pass	
trans-1.3-Dichloropropene	%	107			70-130	Pass	
Trichloroethene	%	110			70-130	Pass	
Trichlorofluoromethane	%	107			70-130	Pass	
Vinyl chloride	%	82			70-130	Pass	
Xylenes - Total	%	94			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	115			70-130	Pass	
TRH C6-C10	%	113			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	100			70-130	Pass	
Acenaphthylene	%	84			70-130	Pass	
Anthracene	%	101			70-130	Pass	
Benz(a)anthracene	%	91			70-130	Pass	
Benzo(a)pyrene	%	96			70-130	Pass	
Benzo(b&j)fluoranthene	%	88			70-130	Pass	
Benzo(g.h.i)perylene	%	96			70-130	Pass	
Benzo(k)fluoranthene	%	98			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chrysene	%	110			70-130	Pass	
Dibenz(a.h)anthracene	%	90			70-130	Pass	
Fluoranthene	%	100			70-130	Pass	
Fluorene	%	90			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	90			70-130	Pass	
Naphthalene	%	93			70-130	Pass	
Phenanthrene	%	93			70-130	Pass	
Pyrene	%	95			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	98			70-130	Pass	
4.4'-DDD	%	98			70-130	Pass	
4.4'-DDE	%	97			70-130	Pass	
4.4'-DDT	%	108			70-130	Pass	
a-BHC	%	100			70-130	Pass	
Aldrin	%	102			70-130	Pass	
b-BHC	%	109			70-130	Pass	
d-BHC	%	126			70-130	Pass	
Dieldrin	%	99			70-130	Pass	
Endosulfan I	%	101			70-130	Pass	
Endosulfan II	%	100			70-130	Pass	
Endosulfan sulphate	%	84			70-130	Pass	
Endrin	%	102			70-130	Pass	
Endrin aldehyde	%	95			70-130	Pass	
Endrin ketone	%	95			70-130	Pass	
g-BHC (Lindane)	%	98			70-130	Pass	
Heptachlor	%	105			70-130	Pass	
Heptachlor epoxide	%	98			70-130	Pass	
Hexachlorobenzene	%	94			70-130	Pass	
Methoxychlor	%	107			70-130	Pass	
Toxaphene	%	84			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1260	%	108			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH >C10-C16	%	89			70-130	Pass	
LCS - % Recovery							
Semivolatile Organics							
1.2.4-Trichlorobenzene	%	79			70-130	Pass	
1.4-Dichlorobenzene	%	81			70-130	Pass	
2-Chlorophenol	%	79			30-130	Pass	
4-Chloro-3-methylphenol	%	79			30-130	Pass	
4-Nitrophenol	%	75			30-130	Pass	
Acenaphthene	%	79			70-130	Pass	
Acenaphthylene	%	84			70-130	Pass	
Anthracene	%	95			70-130	Pass	
Benz(a)anthracene	%	91			70-130	Pass	
Benzo(a)pyrene	%	92			70-130	Pass	
Benzo(b&j)fluoranthene	%	88			70-130	Pass	
Benzo(g.h.i)perylene	%	87			70-130	Pass	
Benzo(k)fluoranthene	%	94			70-130	Pass	
Chrysene	%	103			70-130	Pass	
Dibenz(a.h)anthracene	%	83			70-130	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Fluoranthene			%	98			70-130	Pass	
Fluorene			%	90			70-130	Pass	
Indeno(1.2.3-cd)pyrene			%	81			70-130	Pass	
N-Nitrosodipropylamine			%	79			70-130	Pass	
Naphthalene			%	92			70-130	Pass	
Phenanthrene			%	90			70-130	Pass	
Phenol			%	77			30-130	Pass	
Pyrene			%	85			70-130	Pass	
LCS - % Recovery									
Heavy Metals									
Arsenic			%	100			70-130	Pass	
Cadmium			%	101			70-130	Pass	
Copper			%	96			70-130	Pass	
Lead			%	94			70-130	Pass	
Mercury			%	103			70-130	Pass	
Nickel			%	97			70-130	Pass	
Zinc			%	96			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthylene	S17-Fe02404	NCP	%	92			70-130	Pass	
Anthracene	S17-Fe02404	NCP	%	120			70-130	Pass	
Benz(a)anthracene	S17-Fe02404	NCP	%	106			70-130	Pass	
Benzo(a)pyrene	S17-Fe02404	NCP	%	109			70-130	Pass	
Benzo(b&j)fluoranthene	S17-Fe02404	NCP	%	99			70-130	Pass	
Benzo(g.h.i)perylene	S17-Fe02404	NCP	%	98			70-130	Pass	
Benzo(k)fluoranthene	S17-Fe02404	NCP	%	114			70-130	Pass	
Chrysene	S17-Fe02404	NCP	%	119			70-130	Pass	
Dibenz(a.h)anthracene	S17-Fe02404	NCP	%	87			70-130	Pass	
Fluoranthene	S17-Fe02404	NCP	%	119			70-130	Pass	
Fluorene	S17-Fe02404	NCP	%	106			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S17-Fe02404	NCP	%	92			70-130	Pass	
Naphthalene	S17-Fe02404	NCP	%	111			70-130	Pass	
Phenanthrene	S17-Fe02404	NCP	%	114			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Hexachlorobenzene	S17-Ja17315	NCP	%	78			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S17-Ja15601	CP	%	86			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S17-Ja15601	CP	%	86			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S17-Ja15601	CP	%	101			70-130	Pass	
Cadmium	S17-Ja15601	CP	%	99			70-130	Pass	
Chromium	S17-Ja15601	CP	%	91			70-130	Pass	
Copper	S17-Ja15601	CP	%	95			70-130	Pass	
Lead	S17-Ja15601	CP	%	76			70-130	Pass	
Mercury	S17-Ja15601	CP	%	95			70-130	Pass	
Nickel	S17-Ja15601	CP	%	96			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chlordanes - Total	S17-Ja15603	CP	%	110			70-130	Pass	
4.4'-DDD	S17-Ja15603	CP	%	129			70-130	Pass	
4.4'-DDE	S17-Ja15603	CP	%	109			70-130	Pass	
4.4'-DDT	S17-Ja15603	CP	%	97			70-130	Pass	
a-BHC	S17-Ja15603	CP	%	114			70-130	Pass	
Aldrin	S17-Ja15603	CP	%	115			70-130	Pass	
b-BHC	S17-Ja15603	CP	%	119			70-130	Pass	
d-BHC	S17-Ja15603	CP	%	140			70-130	Fail	Q08
Dieldrin	S17-Ja15603	CP	%	112			70-130	Pass	
Endosulfan I	S17-Ja15603	CP	%	112			70-130	Pass	
Endosulfan II	S17-Ja15603	CP	%	112			70-130	Pass	
Endosulfan sulphate	S17-Ja15603	CP	%	82			70-130	Pass	
Endrin	S17-Ja15603	CP	%	119			70-130	Pass	
Endrin aldehyde	S17-Ja15603	CP	%	83			70-130	Pass	
Endrin ketone	S17-Ja15603	CP	%	84			70-130	Pass	
g-BHC (Lindane)	S17-Ja15603	CP	%	107			70-130	Pass	
Heptachlor	S17-Ja15603	CP	%	128			70-130	Pass	
Heptachlor epoxide	S17-Ja15603	CP	%	112			70-130	Pass	
Methoxychlor	S17-Ja15603	CP	%	110			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1260	S17-Ja15603	CP	%	107			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S17-Ja15615	CP	%	111			70-130	Pass	
Toluene	S17-Ja15615	CP	%	112			70-130	Pass	
Ethylbenzene	S17-Ja15615	CP	%	95			70-130	Pass	
m&p-Xylenes	S17-Ja15615	CP	%	95			70-130	Pass	
o-Xylene	S17-Ja15615	CP	%	95			70-130	Pass	
Xylenes - Total	S17-Ja15615	CP	%	95			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
1.1-Dichloroethane	S17-Ja15615	CP	%	118			70-130	Pass	
1.1-Dichloroethene	S17-Ja15615	CP	%	115			70-130	Pass	
1.1.1-Trichloroethane	S17-Ja15615	CP	%	110			70-130	Pass	
1.1.1.2-Tetrachloroethane	S17-Ja15615	CP	%	90			70-130	Pass	
1.1.2-Trichloroethane	S17-Ja15615	CP	%	112			70-130	Pass	
1.1.2.2-Tetrachloroethane	S17-Ja15615	CP	%	101			70-130	Pass	
1.2-Dibromoethane	S17-Ja15615	CP	%	111			70-130	Pass	
1.2-Dichlorobenzene	S17-Ja15615	CP	%	114			70-130	Pass	
1.2-Dichloroethane	S17-Ja15615	CP	%	110			70-130	Pass	
1.2-Dichloropropane	S17-Ja15615	CP	%	112			70-130	Pass	
1.2.3-Trichloropropane	S17-Ja15615	CP	%	120			70-130	Pass	
1.2.4-Trimethylbenzene	S17-Ja15615	CP	%	114			70-130	Pass	
1.3-Dichlorobenzene	S17-Ja15615	CP	%	112			70-130	Pass	
1.3-Dichloropropane	S17-Ja15615	CP	%	113			70-130	Pass	
1.3.5-Trimethylbenzene	S17-Ja15615	CP	%	113			70-130	Pass	
1.4-Dichlorobenzene	S17-Ja15615	CP	%	113			70-130	Pass	
2-Butanone (MEK)	S17-Ja15615	CP	%	120			70-130	Pass	
2-Propanone (Acetone)	S17-Ja15615	CP	%	126			70-130	Pass	
4-Chlorotoluene	S17-Ja15615	CP	%	113			70-130	Pass	
4-Methyl-2-pentanone (MIBK)	S17-Ja15615	CP	%	122			70-130	Pass	
Allyl chloride	S17-Ja15615	CP	%	107			70-130	Pass	
Bromobenzene	S17-Ja15615	CP	%	113			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Bromochloromethane	S17-Ja15615	CP	%	113			70-130	Pass	
Bromodichloromethane	S17-Ja15615	CP	%	100			70-130	Pass	
Bromoform	S17-Ja15615	CP	%	82			70-130	Pass	
Carbon disulfide	S17-Ja15615	CP	%	96			70-130	Pass	
Carbon Tetrachloride	S17-Ja15615	CP	%	104			70-130	Pass	
Chlorobenzene	S17-Ja15615	CP	%	96			70-130	Pass	
Chloroethane	S17-Ja15615	CP	%	104			70-130	Pass	
Chloroform	S17-Ja15615	CP	%	116			70-130	Pass	
Chloromethane	S17-Ja15615	CP	%	123			70-130	Pass	
cis-1.2-Dichloroethene	S17-Ja15615	CP	%	119			70-130	Pass	
cis-1.3-Dichloropropene	S17-Ja15615	CP	%	100			70-130	Pass	
Dibromochloromethane	S17-Ja15615	CP	%	98			70-130	Pass	
Dibromomethane	S17-Ja15615	CP	%	111			70-130	Pass	
Dichlorodifluoromethane	S17-Ja15615	CP	%	101			70-130	Pass	
Isopropyl benzene (Cumene)	S17-Ja15615	CP	%	95			70-130	Pass	
Methylene Chloride	S17-Ja15615	CP	%	119			70-130	Pass	
Styrene	S17-Ja15615	CP	%	94			70-130	Pass	
Tetrachloroethene	S17-Ja15615	CP	%	110			70-130	Pass	
trans-1.2-Dichloroethene	S17-Ja15615	CP	%	118			70-130	Pass	
trans-1.3-Dichloropropene	S17-Ja15615	CP	%	103			70-130	Pass	
Trichloroethene	S17-Ja15615	CP	%	111			70-130	Pass	
Trichlorofluoromethane	S17-Ja15615	CP	%	111			70-130	Pass	
Vinyl chloride	S17-Ja15615	CP	%	86			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S17-Ja15615	CP	%	111			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S17-Ja15615	CP	%	87			70-130	Pass	
Pyrene	S17-Ja15615	CP	%	125			70-130	Pass	
Spike - % Recovery									
Semivolatile Organics				Result 1					
1.2.4-Trichlorobenzene	S17-Ja15615	CP	%	87			70-130	Pass	
1.4-Dichlorobenzene	S17-Ja15615	CP	%	88			70-130	Pass	
2-Chlorophenol	S17-Ja15615	CP	%	85			30-130	Pass	
2.4-Dinitrotoluene	S17-Ja15615	CP	%	73			70-130	Pass	
4-Chloro-3-methylphenol	S17-Ja15615	CP	%	87			30-130	Pass	
4-Nitrophenol	S17-Ja15615	CP	%	82			30-130	Pass	
N-Nitrosodipropylamine	S17-Ja15615	CP	%	91			70-130	Pass	
Phenol	S17-Ja15615	CP	%	86			30-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S17-Ja15619	CP	%	96			70-130	Pass	
TRH C10-C14	S17-Ja15619	CP	%	102			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S17-Ja15619	CP	%	107			70-130	Pass	
Toluene	S17-Ja15619	CP	%	105			70-130	Pass	
Ethylbenzene	S17-Ja15619	CP	%	102			70-130	Pass	
m&p-Xylenes	S17-Ja15619	CP	%	105			70-130	Pass	
o-Xylene	S17-Ja15619	CP	%	105			70-130	Pass	
Xylenes - Total	S17-Ja15619	CP	%	105			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Naphthalene	S17-Ja15619	CP	%	87			70-130	Pass	
TRH C6-C10	S17-Ja15619	CP	%	103			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S17-Ja15619	CP	%	108			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S17-Ja15638	CP	%	117			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S17-Ja15638	CP	%	109			70-130	Pass	
Toluene	S17-Ja15638	CP	%	105			70-130	Pass	
Ethylbenzene	S17-Ja15638	CP	%	103			70-130	Pass	
m&p-Xylenes	S17-Ja15638	CP	%	108			70-130	Pass	
o-Xylene	S17-Ja15638	CP	%	107			70-130	Pass	
Xylenes - Total	S17-Ja15638	CP	%	108			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S17-Ja15638	CP	%	80			70-130	Pass	
TRH C6-C10	S17-Ja15638	CP	%	114			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S17-Ja15638	CP	%	101			70-130	Pass	
Cadmium	S17-Ja15638	CP	%	96			70-130	Pass	
Chromium	S17-Ja15638	CP	%	99			70-130	Pass	
Copper	S17-Ja15638	CP	%	104			70-130	Pass	
Lead	S17-Ja15638	CP	%	113			70-130	Pass	
Mercury	S17-Ja15638	CP	%	99			70-130	Pass	
Nickel	S17-Ja15638	CP	%	102			70-130	Pass	
Zinc	S17-Ja15638	CP	%	114			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S17-Ja15639	CP	%	106			70-130	Pass	
4.4'-DDE	S17-Ja15639	CP	%	103			70-130	Pass	
a-BHC	S17-Ja15639	CP	%	100			70-130	Pass	
Aldrin	S17-Ja15639	CP	%	101			70-130	Pass	
b-BHC	S17-Ja15639	CP	%	101			70-130	Pass	
d-BHC	S17-Ja15639	CP	%	124			70-130	Pass	
Dieldrin	S17-Ja15639	CP	%	115			70-130	Pass	
Endosulfan I	S17-Ja15639	CP	%	114			70-130	Pass	
Endosulfan II	S17-Ja15639	CP	%	105			70-130	Pass	
Endrin	S17-Ja15639	CP	%	104			70-130	Pass	
Endrin aldehyde	S17-Ja15639	CP	%	94			70-130	Pass	
Endrin ketone	S17-Ja15639	CP	%	78			70-130	Pass	
g-BHC (Lindane)	S17-Ja15639	CP	%	92			70-130	Pass	
Heptachlor	S17-Ja15639	CP	%	99			70-130	Pass	
Heptachlor epoxide	S17-Ja15639	CP	%	102			70-130	Pass	
Methoxychlor	S17-Ja15639	CP	%	118			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S17-Ja15600	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S17-Ja15600	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S17-Ja15600	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S17-Ja15600	CP	mg/kg	< 50	< 50	<1	30%	Pass	

Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S17-Ja15600	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S17-Ja15600	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S17-Ja15600	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S17-Ja15600	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S17-Ja15600	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S17-Ja15600	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S17-Ja15600	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S17-Ja15600	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S17-Ja15600	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S17-Ja15600	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S17-Ja15600	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S17-Ja15600	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S17-Ja15600	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S17-Ja15600	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S17-Ja15600	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S17-Ja15600	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S17-Ja15600	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S17-Ja15600	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S17-Ja15600	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S17-Ja15600	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S17-Ja15600	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S17-Ja15600	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S17-Ja15600	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S17-Ja15600	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S17-Ja15600	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S17-Ja15600	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S17-Ja15600	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S17-Ja15600	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S17-Ja15600	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S17-Ja15600	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S17-Ja15600	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S17-Ja15600	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S17-Ja15600	CP	mg/kg	2.4	2.4	1.0	30%	Pass	
Cadmium	S17-Ja15600	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S17-Ja15600	CP	mg/kg	7.7	7.9	2.0	30%	Pass	
Copper	S17-Ja15600	CP	mg/kg	7.3	8.2	12	30%	Pass	
Lead	S17-Ja15600	CP	mg/kg	14	16	17	30%	Pass	
Nickel	S17-Ja15600	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	S17-Ja15600	CP	mg/kg	22	23	5.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S17-Ja15600	CP	%	5.0	4.5	10	30%	Pass	

Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S17-Ja15601	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1221	S17-Ja15601	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S17-Ja15601	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S17-Ja15601	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S17-Ja15601	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S17-Ja15601	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S17-Ja15601	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S17-Ja15606	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S17-Ja15606	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S17-Ja15606	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S17-Ja15606	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S17-Ja15606	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S17-Ja15606	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S17-Ja15606	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromoform	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Dibromochloromethane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S17-Ja15606	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Semivolatile Organics				Result 1	Result 2	RPD			
2-Methyl-4.6-dinitrophenol	S17-Ja15606	CP	mg/kg	< 5	< 5	<1	30%	Pass	
1-Chloronaphthalene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1-Naphthylamine	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichlorobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3.4-Tetrachlorobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3.5-Tetrachlorobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trichlorobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4.5-Tetrachlorobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trichlorobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Chloronaphthalene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Chlorophenol	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Methylnaphthalene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Methylphenol (o-Cresol)	S17-Ja15606	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
2-Naphthylamine	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Semivolatile Organics				Result 1	Result 2	RPD			
2-Nitroaniline	S17-Ja15606	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2-Nitrophenol	S17-Ja15606	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2-Picoline	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.3.4.6-Tetrachlorophenol	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dichlorophenol	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dimethylphenol	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.4-Dinitrophenol	S17-Ja15606	CP	mg/kg	< 5	< 5	<1	30%	Pass	
2.4-Dinitrotoluene	S17-Ja15606	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4.5-Trichlorophenol	S17-Ja15606	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.4.6-Trichlorophenol	S17-Ja15606	CP	mg/kg	< 1	< 1	<1	30%	Pass	
2.6-Dichlorophenol	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2.6-Dinitrotoluene	S17-Ja15606	CP	mg/kg	< 1	< 1	<1	30%	Pass	
3&4-Methylphenol (m&p-Cresol)	S17-Ja15606	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
3-Methylcholanthrene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
3.3'-Dichlorobenzidine	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Aminobiphenyl	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Bromophenyl phenyl ether	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chloro-3-methylphenol	S17-Ja15606	CP	mg/kg	< 1	< 1	<1	30%	Pass	
4-Chlorophenyl phenyl ether	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Nitrophenol	S17-Ja15606	CP	mg/kg	< 5	< 5	<1	30%	Pass	
4.4'-DDD	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4.4'-DDE	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4.4'-DDT	S17-Ja15606	CP	mg/kg	< 1	< 1	<1	30%	Pass	
7.12-Dimethylbenz(a)anthracene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
a-BHC	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acetophenone	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aldrin	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aniline	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
b-BHC	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzyl chloride	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bis(2-chloroethoxy)methane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bis(2-chloroisopropyl)ether	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bis(2-ethylhexyl)phthalate	S17-Ja15606	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Butyl benzyl phthalate	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
d-BHC	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Di-n-butyl phthalate	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Di-n-octyl phthalate	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.j)acridine	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenzofuran	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dieldrin	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Diethyl phthalate	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dimethyl phthalate	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dimethylaminoazobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Diphenylamine	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endosulfan I	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endosulfan II	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endosulfan sulphate	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endrin	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endrin aldehyde	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Endrin ketone	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
g-BHC (Lindane)	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Heptachlor	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Heptachlor epoxide	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Hexachlorobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Semivolatile Organics				Result 1	Result 2	RPD			
Hexachlorobutadiene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Hexachlorocyclopentadiene	S17-Ja15606	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Hexachloroethane	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methoxychlor	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
N-Nitrosodibutylamine	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
N-Nitrosodipropylamine	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
N-Nitrosopiperidine	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Nitrobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pentachlorobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pentachloronitrobenzene	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pentachlorophenol	S17-Ja15606	CP	mg/kg	< 1	< 1	<1	30%	Pass	
Phenol	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pronamide	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trifluralin	S17-Ja15606	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S17-Ja15618	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S17-Ja15618	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S17-Ja15618	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S17-Ja15618	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S17-Ja15618	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S17-Ja15618	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S17-Ja15618	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S17-Ja15618	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S17-Ja15618	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S17-Ja15618	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
1.1-Dichloroethane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1-Dichloroethene	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1-Trichloroethane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.1.2-Tetrachloroethane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2-Trichloroethane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.1.2.2-Tetrachloroethane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dibromoethane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichlorobenzene	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloroethane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2-Dichloropropane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.3-Trichloropropane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.2.4-Trimethylbenzene	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichlorobenzene	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3-Dichloropropane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.3.5-Trimethylbenzene	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
1.4-Dichlorobenzene	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Butanone (MEK)	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
2-Propanone (Acetone)	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Chlorotoluene	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
4-Methyl-2-pentanone (MIBK)	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Allyl chloride	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromobenzene	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromochloromethane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromodichloromethane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Bromoform	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Bromomethane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon disulfide	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Carbon Tetrachloride	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chlorobenzene	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroethane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloroform	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chloromethane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.2-Dichloroethene	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
cis-1.3-Dichloropropene	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromochloromethane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibromomethane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dichlorodifluoromethane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Iodomethane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Isopropyl benzene (Cumene)	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Methylene Chloride	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Styrene	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Tetrachloroethene	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.2-Dichloroethene	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
trans-1.3-Dichloropropene	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichloroethene	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Trichlorofluoromethane	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Vinyl chloride	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S17-Ja15618	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S17-Ja15618	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S17-Ja15618	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S17-Ja15618	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S17-Ja15618	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S17-Ja15618	CP	mg/kg	2.3	2.7	16	30%	Pass	
Cadmium	S17-Ja15618	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S17-Ja15618	CP	mg/kg	7.1	7.8	10	30%	Pass	
Copper	S17-Ja15618	CP	mg/kg	16	16	3.0	30%	Pass	
Lead	S17-Ja15618	CP	mg/kg	25	25	3.0	30%	Pass	
Nickel	S17-Ja15618	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	S17-Ja15618	CP	mg/kg	34	33	3.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S17-Ja15618	CP	%	8.7	7.8	11	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S17-Ja15637	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S17-Ja15637	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S17-Ja15637	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S17-Ja15637	CP	mg/kg	< 50	< 50	<1	30%	Pass	

Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S17-Ja15637	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S17-Ja15637	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S17-Ja15637	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S17-Ja15637	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S17-Ja15637	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total	S17-Ja15637	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S17-Ja15637	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S17-Ja15637	CP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S17-Ja15637	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S17-Ja15637	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S17-Ja15637	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S17-Ja15637	CP	mg/kg	< 2	< 2	<1	30%	Pass	
Cadmium	S17-Ja15637	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S17-Ja15637	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Copper	S17-Ja15637	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Lead	S17-Ja15637	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Mercury	S17-Ja15637	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S17-Ja15637	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	S17-Ja15637	CP	mg/kg	24	29	17	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S17-Ja15637	CP	%	1.6	1.9	16	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S17-Ja15638	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S17-Ja15638	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S17-Ja15638	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S17-Ja15638	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S17-Ja15638	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S17-Ja15638	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S17-Ja15638	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S17-Ja15638	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S17-Ja15638	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S17-Ja15638	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S17-Ja15638	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S17-Ja15638	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S17-Ja15638	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S17-Ja15638	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S17-Ja15638	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S17-Ja15638	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S17-Ja15638	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S17-Ja15638	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S17-Ja15638	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S17-Ja15638	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Toxaphene	S17-Ja15638	CP	mg/kg	< 1	< 1	<1	30%	Pass	

Comments

This report has been revised to include TRH test results for sample S17-Ja15621.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q08	The matrix spike recovery is outside of the recommended acceptance criteria. An acceptable recovery was obtained for the laboratory control sample indicating a sample matrix interference

Authorised By

Nibha Vaidya	Analytical Services Manager
Nibha Vaidya	Senior Analyst-Asbestos (NSW)
Ryan Hamilton	Senior Analyst-Inorganic (NSW)
Ryan Hamilton	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Glenn Jackson

National Operations Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Coffey Geotechnics Pty Ltd Chatswood
Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Attention: **Alex Ructtinger**

Report **531768-W**
Project name ALEXANDRIA SCHOOL
Project ID 754-SYDEN199382
Received Date Jan 27, 2017

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**TB1** **Water** **S17-Ja15625** **Jan 23, 2017**	**TS1** **Water** **S17-Ja15626** **Jan 23, 2017**	**TB2** **Water** **S17-Ja15640** **Jan 24, 2017**	**TS2** **Water** **S17-Ja15641** **Jan 24, 2017**
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	0.02	mg/L	< 0.02	96%	< 0.02	95%
BTEX						
Benzene	0.001	mg/L	< 0.001	112%	< 0.001	109%
Toluene	0.001	mg/L	< 0.001	107%	< 0.001	104%
Ethylbenzene	0.001	mg/L	< 0.001	98%	< 0.001	98%
m&p-Xylenes	0.002	mg/L	< 0.002	100%	< 0.002	100%
o-Xylene	0.001	mg/L	< 0.001	102%	< 0.001	101%
Xylenes - Total	0.003	mg/L	< 0.003	101%	< 0.003	100%
4-Bromofluorobenzene (surr.)	1	%	94	99	95	101

Client Sample ID **Sample Matrix** **Eurofins | mgt Sample No.** **Date Sampled** Test/Reference	LOR	Unit	**RINSATE** **Water** **S17-Ja15642** **Jan 24, 2017**
Total Recoverable Hydrocarbons - 1999 NEPM Fractions			
TRH C6-C9	0.02	mg/L	< 0.02
TRH C10-C14	0.05	mg/L	< 0.05
TRH C15-C28	0.1	mg/L	< 0.1
TRH C29-C36	0.1	mg/L	< 0.1
TRH C10-36 (Total)	0.1	mg/L	< 0.1
BTEX			
Benzene	0.001	mg/L	< 0.001
Toluene	0.001	mg/L	< 0.001
Ethylbenzene	0.001	mg/L	< 0.001
m&p-Xylenes	0.002	mg/L	< 0.002
o-Xylene	0.001	mg/L	< 0.001
Xylenes - Total	0.003	mg/L	< 0.003
4-Bromofluorobenzene (surr.)	1	%	95
Total Recoverable Hydrocarbons - 2013 NEPM Fractions			
Naphthalene[N02]	0.01	mg/L	< 0.01
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05
TRH C6-C10	0.02	mg/L	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02

Client Sample ID			RINSATE
Sample Matrix			Water
Eurofins | mgt Sample No.			S17-Ja15642
Date Sampled			Jan 24, 2017
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
Acenaphthene	0.001	mg/L	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001
Anthracene	0.001	mg/L	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001
Chrysene	0.001	mg/L	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001
Fluoranthene	0.001	mg/L	< 0.001
Fluorene	0.001	mg/L	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001
Naphthalene	0.001	mg/L	< 0.001
Phenanthrene	0.001	mg/L	< 0.001
Pyrene	0.001	mg/L	< 0.001
Total PAH*	0.001	mg/L	< 0.001
2-Fluorobiphenyl (surr.)	1	%	79
p-Terphenyl-d14 (surr.)	1	%	97
Total Recoverable Hydrocarbons - 2013 NEPM Fractions			
TRH >C10-C16	0.05	mg/L	< 0.05
TRH >C16-C34	0.1	mg/L	< 0.1
TRH >C34-C40	0.1	mg/L	< 0.1
Heavy Metals			
Arsenic	0.001	mg/L	< 0.001
Cadmium	0.0002	mg/L	< 0.0002
Chromium	0.001	mg/L	< 0.001
Copper	0.001	mg/L	< 0.001
Lead	0.001	mg/L	< 0.001
Mercury	0.0001	mg/L	< 0.0001
Nickel	0.001	mg/L	< 0.001
Zinc	0.005	mg/L	0.005

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins | mgt Suite B4			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Feb 01, 2017	7 Day
- Method: TRH C6-C36 - LTM-ORG-2010			
BTEX	Sydney	Jan 27, 2017	14 Day
- Method: TRH C6-C40 - LTM-ORG-2010			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Jan 27, 2017	7 Day
- Method: TRH C6-C40 - LTM-ORG-2010			
Polycyclic Aromatic Hydrocarbons	Sydney	Feb 01, 2017	7 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Feb 01, 2017	7 Day
- Method: TRH C6-C40 - LTM-ORG-2010			
Metals M8	Sydney	Jan 27, 2017	28 Day
- Method: LTM-MET-3040 Metals in Waters by ICP-MS			

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Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: ALEXANDRIA SCHOOL
Project ID: 754-SYDEN199382

Order No.:
Report #: 531768
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: Jan 27, 2017 12:51 PM
Due: Feb 3, 2017
Priority: 5 Day
Contact Name: Alex Ructtinger

Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail						Asbestos Absence /Presence	HOLD	TRH C6-C9	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Volatile Organics	Moisture Set	Semivolatile Organics	Eurofins | mgt Suite B4
Melbourne Laboratory - NATA Site # 1254 & 14271																
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																
Perth Laboratory - NATA Site # 18217																
External Laboratory																
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**											
1	TP8 0.0-0.1	Jan 23, 2017		Soil	S17-Ja15600				X		X			X		X
2	TP8 0.4-0.6	Jan 23, 2017		Soil	S17-Ja15601					X	X			X		X
3	TP8 0.8-1.0	Jan 23, 2017		Soil	S17-Ja15602		X									
4	TP6 0.0-0.1	Jan 23, 2017		Soil	S17-Ja15603				X	X	X			X		X
5	TP6 0.4-0.6	Jan 23, 2017		Soil	S17-Ja15604						X			X		X
6	TP6 0.9-1.0	Jan 23, 2017		Soil	S17-Ja15605		X									
7	TP7 0.0-0.1	Jan 23, 2017		Soil	S17-Ja15606	X			X		X		X	X	X	X
8	TP7 0.4-0.6	Jan 23, 2017		Soil	S17-Ja15607		X									
9	TP7 0.9-1.0	Jan 23, 2017		Soil	S17-Ja15608						X			X		X

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NATA # 1261
Site # 18217

Company Name: Coffey Geotechnics Pty Ltd Chatswood
Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: ALEXANDRIA SCHOOL
Project ID: 754-SYDEN199382

Order No.:
Report #: 531768
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: Jan 27, 2017 12:51 PM
Due: Feb 3, 2017
Priority: 5 Day
Contact Name: Alex Ructtinger

Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail						Asbestos Absence / Presence	HOLD	TRH C6-C9	Organochlorine Pesticides	Polychlorinated Biphenyls	Metals M8	BTEX	Volatile Organics	Moisture Set	Semivolatile Organics	Eurofins | mgt Suite B4
Melbourne Laboratory - NATA Site # 1254 & 14271																
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																
Perth Laboratory - NATA Site # 18217																
10	TP7 2.0-2.2	Jan 23, 2017		Soil	S17-Ja15609		X									
11	TP5 0.0-0.1	Jan 23, 2017		Soil	S17-Ja15610	X			X	X	X			X		X
12	TP5 0.4-0.6	Jan 23, 2017		Soil	S17-Ja15611	X										
13	TP5 0.9-1.0	Jan 23, 2017		Soil	S17-Ja15612	X					X			X		X
14	TP5 1.8-2.0	Jan 23, 2017		Soil	S17-Ja15613		X									
15	TP4 0.0-0.1	Jan 23, 2017		Soil	S17-Ja15614				X		X			X		X
16	TP4 0.5-0.6	Jan 23, 2017		Soil	S17-Ja15615					X	X		X	X	X	X
17	TP4 0.8-1.0	Jan 23, 2017		Soil	S17-Ja15616		X									
18	TP4 1.3-1.5	Jan 23, 2017		Soil	S17-Ja15617		X									
19	TP3 0.0-0.1	Jan 23, 2017		Soil	S17-Ja15618				X	X	X		X	X	X	X
20	TP3 0.4-0.6	Jan 23, 2017		Soil	S17-Ja15619						X			X		X
21	TP3 0.9-1.0	Jan 23, 2017		Soil	S17-Ja15620		X									

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NATA # 1261 Site # 18217

Brisbane
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NATA # 1261 Site # 20794

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Melbourne Laboratory - NATA Site # 1254 & 14271																
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																
Perth Laboratory - NATA Site # 18217																
22	TP3 1.2-1.3	Jan 23, 2017		Soil	S17-Ja15621						X			X		X
23	DUP 01	Jan 23, 2017		Soil	S17-Ja15622						X			X		X
24	DUP 02	Jan 23, 2017		Soil	S17-Ja15623						X			X		X
25	DUP 03	Jan 23, 2017		Soil	S17-Ja15624		X									
26	TB1	Jan 23, 2017		Water	S17-Ja15625			X				X				
27	TS1	Jan 23, 2017		Water	S17-Ja15626			X				X				
28	TP6-ACM	Jan 23, 2017		Other	S17-Ja15627		X									
29	TP7-ACM	Jan 23, 2017		Other	S17-Ja15628		X									
30	APS-1	Jan 23, 2017		Other	S17-Ja15629	X										
31	TPS-ACM	Jan 23, 2017		Other	S17-Ja15630		X									
32	HA02 0.0-0.1	Jan 24, 2017		Soil	S17-Ja15631	X			X	X	X			X		X
33	HA04 0.0-0.1	Jan 24, 2017		Soil	S17-Ja15632	X			X		X		X	X	X	X

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Melbourne Laboratory - NATA Site # 1254 & 14271																
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794																
Perth Laboratory - NATA Site # 18217																
34	HA04 0.5-0.6	Jan 24, 2017		Soil	S17-Ja15633		X									
35	HA04 0.8-1.0	Jan 24, 2017		Soil	S17-Ja15634						X			X		X
36	HA05 0.0-0.1	Jan 24, 2017		Soil	S17-Ja15635				X		X			X		X
37	HA05 0.4-0.5	Jan 24, 2017		Soil	S17-Ja15636						X			X		X
38	HA06 0.0-0.1	Jan 24, 2017		Soil	S17-Ja15637				X		X			X		X
39	HA07 0.0-0.1	Jan 24, 2017		Soil	S17-Ja15638	X			X		X			X		X
40	HA01 0.0-0.1	Jan 24, 2017		Soil	S17-Ja15639				X	X	X		X	X	X	X
41	TB2	Jan 24, 2017		Water	S17-Ja15640			X				X				
42	TS2	Jan 24, 2017		Water	S17-Ja15641			X				X				
43	RINSATE	Jan 24, 2017		Water	S17-Ja15642						X					X
44	DUP 04	Jan 24, 2017		Soil	S17-Ja15643						X			X		X
Test Counts						8	13	4	12	7	25	4	5	24	5	25

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Advice.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Nephelometric Turbidity Units

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 50-150%-Phenols & PFASs 20-130%

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

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Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Total Recoverable Hydrocarbons - 1999 NEPM Fractions									
TRH C6-C9			%	117			70-130	Pass	
TRH C10-C14			%	129			70-130	Pass	
LCS - % Recovery									
BTEX									
Benzene			%	109			70-130	Pass	
Toluene			%	110			70-130	Pass	
Ethylbenzene			%	110			70-130	Pass	
m&p-Xylenes			%	113			70-130	Pass	
o-Xylene			%	111			70-130	Pass	
Xylenes - Total			%	113			70-130	Pass	
LCS - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions									
Naphthalene			%	117			70-130	Pass	
TRH C6-C10			%	113			70-130	Pass	
LCS - % Recovery									
Polycyclic Aromatic Hydrocarbons									
Acenaphthene			%	104			70-130	Pass	
Acenaphthylene			%	112			70-130	Pass	
Anthracene			%	90			70-130	Pass	
Benz(a)anthracene			%	95			70-130	Pass	
Benzo(a)pyrene			%	78			70-130	Pass	
Benzo(b&j)fluoranthene			%	87			70-130	Pass	
Benzo(g.h.i)perylene			%	112			70-130	Pass	
Benzo(k)fluoranthene			%	90			70-130	Pass	
Chrysene			%	100			70-130	Pass	
Dibenz(a.h)anthracene			%	97			70-130	Pass	
Fluoranthene			%	100			70-130	Pass	
Fluorene			%	105			70-130	Pass	
Indeno(1.2.3-cd)pyrene			%	102			70-130	Pass	
Naphthalene			%	110			70-130	Pass	
Phenanthrene			%	102			70-130	Pass	
Pyrene			%	99			70-130	Pass	
LCS - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions									
TRH >C10-C16			%	116			70-130	Pass	
LCS - % Recovery									
Heavy Metals									
Arsenic			%	85			70-130	Pass	
Cadmium			%	87			70-130	Pass	
Chromium			%	81			70-130	Pass	
Copper			%	83			70-130	Pass	
Lead			%	83			70-130	Pass	
Mercury			%	89			70-130	Pass	
Nickel			%	82			70-130	Pass	
Zinc			%	89			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S17-Ja16279	NCP	%	114			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S17-Ja16279	NCP	%	113			70-130	Pass	
Toluene	S17-Ja16279	NCP	%	114			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Ethylbenzene	S17-Ja16279	NCP	%	112			70-130	Pass	
m&p-Xylenes	S17-Ja16279	NCP	%	115			70-130	Pass	
o-Xylene	S17-Ja16279	NCP	%	114			70-130	Pass	
Xylenes - Total	S17-Ja16279	NCP	%	115			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S17-Ja16279	NCP	%	103			70-130	Pass	
TRH C6-C10	S17-Ja16279	NCP	%	103			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	M17-Ja13741	NCP	%	93			70-130	Pass	
Cadmium	M17-Ja13741	NCP	%	102			70-130	Pass	
Chromium	M17-Ja13741	NCP	%	85			70-130	Pass	
Copper	M17-Ja13741	NCP	%	84			70-130	Pass	
Lead	M17-Ja13741	NCP	%	82			70-130	Pass	
Mercury	M17-Ja13741	NCP	%	76			70-130	Pass	
Nickel	M17-Ja13741	NCP	%	83			70-130	Pass	
Zinc	M17-Ja13741	NCP	%	87			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S17-Ja16278	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S17-Ja16278	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S17-Ja16278	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S17-Ja16278	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S17-Ja16278	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S17-Ja16278	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total	S17-Ja16278	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S17-Ja16278	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
TRH C6-C10	S17-Ja16278	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	M17-Ja13748	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Cadmium	M17-Ja15146	NCP	mg/L	< 0.0002	< 0.0002	<1	30%	Pass	
Chromium	M17-Ja13748	NCP	mg/L	0.001	< 0.001	5.0	30%	Pass	
Copper	M17-Ja13748	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Lead	M17-Ja13748	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Mercury	M17-Ja13748	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	M17-Ja13748	NCP	mg/L	0.006	0.006	1.0	30%	Pass	
Zinc	M17-Ja09411	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Nibha Vaidya	Analytical Services Manager
Ryan Hamilton	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)
Ryan Hamilton	Senior Analyst-Volatile (NSW)

Glenn Jackson
National Operations Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Eliane McCarthy

From: Nibha Vaidya
Sent: Tuesday, 7 February 2017 12:47 PM
To: !AU04_CAU001_EnviroSampleNSW
Subject: FW: Further analysis required - Alexandria
Attachments: 531768-S_report.pdf

Additional analysis please. CEC to go to Melbourne.

Kind Regards,

Nibha Vaidya
Phone : +61 2 9900 8415
Mobile : +61 499 900 805
Email : NibhaVaidya@eurofins.com

From: Ructtinger, Alex [mailto:Alex.Ructtinger@coffey.com]
Sent: Tuesday, 7 February 2017 12:39 PM
To: Nibha Vaidya
Subject: Further analysis required - Alexandria

Hi Nibha,

Could I please schedule in the following analysis on a Standard TAT:

- CEC on samples HA01 0.0-0.1, TP3 0.4-0.6, TP7 0.9-1.0
- TCLP
  - Lead on sample TP3 0.4-0.6 and TP4 0.5-0.6
  - BaP on samples TP3 0.4-0.6 and TP8 0.4-0.6
- pH on samples HA01 0.0-0.1, TP3 0.4-0.6, TP7 0.9-1.0

Thanks,

Kind Regards,

Alex Ructtinger
Environmental Consultant

Level 19, Tower B - Citadel Tower,
799 Pacific Highway, Chatswood, NSW 2067

t: +61 2 9406 1052
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>>> **Ingenuity@coffey** – it's the ideas that count

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Phone : +61 3 8564 5000
NATA # 1261
Site # 1254 & 14271

Sydney
Unit F3, Building F
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Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
1/21 Smallwood Place
Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth
2/91 Leach Highway
Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261 Site # 18217

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com web : www.eurofins.com.au

Sample Receipt Advice

Company name:	**Coffey Geotechnics Pty Ltd Chatswood**
Contact name:	Alex Ructtinger
Project name:	ADDITIONAL: ALEXANDRIA SCHOOL
Project ID:	754-SYDEN199382
COC number:	Not provided
Turn around time:	5 Day
Date/Time received:	Feb 7, 2017 12:39 PM
Eurofins | mgt reference:	**533096**

Sample information

- ☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : .7 degrees Celsius.
- ☑ All samples have been received as described on the above COC.
- ☑ COC has been completed correctly.
- ☑ Attempt to chill was evident.
- ☑ Appropriately preserved sample containers have been used.
- ☑ All samples were received in good condition.
- ☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ☑ Appropriate sample containers have been used.
- ☒ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Contact notes

If you have any questions with respect to these samples please contact:

Nibha Vaidya on Phone : +61 (2) 9900 8400 or by e.mail: NibhaVaidya@eurofins.com

Results will be delivered electronically via e.mail to Alex Ructtinger - alexander.ructtinger@coffey.com.

Note: A copy of these results will also be delivered to the general Coffey Geotechnics Pty Ltd Chatswood email address.

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NATA # 1261
Site # 18217

Company Name: Coffey Geotechnics Pty Ltd Chatswood
Address: Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Project Name: ADDITIONAL: ALEXANDRIA SCHOOL
Project ID: 754-SYDEN199382

Order No.:
Report #: 533096
Phone: +61 2 9406 1000
Fax: +61 2 9406 1002

Received: Feb 7, 2017 12:39 PM
Due: Feb 14, 2017
Priority: 5 Day
Contact Name: Alex Ructtinger

Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail						Benzo(a)pyrene	Lead	pH (1:5 Aqueous extract)	USA Leaching Procedure	Moisture Set	Cation Exchange Capacity
Melbourne Laboratory - NATA Site # 1254 & 14271										X	X
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794											
Perth Laboratory - NATA Site # 18217											
External Laboratory											
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
1	HA01 0.0-0.1	Jan 23, 2017		Soil	S17-Fe06347			X		X	X
2	TP3 0.4-0.6	Jan 23, 2017		Soil	S17-Fe06348			X		X	X
3	TP7 0.9-1.0	Jan 23, 2017		Soil	S17-Fe06349			X		X	X
4	TP3 0.4-0.6	Jan 23, 2017		US Leachate	S17-Fe06350	X	X		X		
5	TP4 0.5-0.6	Jan 23, 2017		US Leachate	S17-Fe06351		X		X		
6	TP8 0.4-0.6	Jan 23, 2017		US Leachate	S17-Fe06352		X		X		
Test Counts						1	3	3	3	3	3

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Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Coffey Geotechnics Pty Ltd Chatswood
Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Attention: **Alex Ructtinger**

Report **533096-L**
Project name ADDITIONAL: ALEXANDRIA SCHOOL
Project ID 754-SYDEN199382
Received Date Feb 07, 2017

Client Sample ID			**TP3 0.4-0.6**	**TP4 0.5-0.6**	**TP8 0.4-0.6**
Sample Matrix			**US Leachate**	**US Leachate**	**US Leachate**
Eurofins | mgt Sample No.			**S17-Fe06350**	**S17-Fe06351**	**S17-Fe06352**
Date Sampled			**Jan 23, 2017**	**Jan 23, 2017**	**Jan 23, 2017**
Test/Reference	LOR	Unit			
Polycyclic Aromatic Hydrocarbons					
Benzo(a)pyrene	0.001	mg/L	< 0.001	-	-
Heavy Metals					
Lead	0.01	mg/L	0.14	< 0.01	< 0.01
USA Leaching Procedure					
Leachate Fluid[C01]		comment	1.0	1.0	1.0
pH (initial)	0.1	pH Units	7.6	7.3	6.8
pH (off)	0.1	pH Units	5.1	5.9	5.0
pH (USA HCl addition)	0.1	pH Units	1.4	1.5	1.4

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Polycyclic Aromatic Hydrocarbons	Sydney	Feb 14, 2017	7 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
Heavy Metals	Sydney	Feb 13, 2017	180 Day
- Method: LTM-MET-3030 by ICP-OES (hydride ICP-OES for Mercury)			
USA Leaching Procedure	Sydney	Feb 13, 2017	14 Day
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			

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Perth
2/91 Leach Highway
Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261
Site # 18217

Company Name:	Coffey Geotechnics Pty Ltd Chatswood	**Order No.:**		**Received:**	Feb 7, 2017 12:39 PM
Address:	Level 18, Tower B, Citadel Tower 799 Pacific Highway Chatswood NSW 2067	**Report #:**	533096	**Due:**	Feb 14, 2017
		Phone:	+61 2 9406 1000	**Priority:**	5 Day
		Fax:	+61 2 9406 1002	**Contact Name:**	Alex Ructtinger
Project Name:	ADDITIONAL: ALEXANDRIA SCHOOL				
Project ID:	754-SYDEN199382				

Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail						Benzo(a)pyrene	Lead	pH (1:5 Aqueous extract)	USA Leaching Procedure	Moisture Set	Cation Exchange Capacity
Melbourne Laboratory - NATA Site # 1254 & 14271										X	X
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794											
Perth Laboratory - NATA Site # 18217											
External Laboratory											
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
1	HA01 0.0-0.1	Jan 23, 2017		Soil	S17-Fe06347			X		X	X
2	TP3 0.4-0.6	Jan 23, 2017		Soil	S17-Fe06348			X		X	X
3	TP7 0.9-1.0	Jan 23, 2017		Soil	S17-Fe06349			X		X	X
4	TP3 0.4-0.6	Jan 23, 2017		US Leachate	S17-Fe06350	X	X		X		
5	TP4 0.5-0.6	Jan 23, 2017		US Leachate	S17-Fe06351		X		X		
6	TP8 0.4-0.6	Jan 23, 2017		US Leachate	S17-Fe06352		X		X		
Test Counts						1	3	3	3	3	3

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Advice.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Nephelometric Turbidity Units

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 50-150%-Phenols & PFASs 20-130%

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

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Quality Control Results

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank									
Polycyclic Aromatic Hydrocarbons									
Benzo(a)pyrene			mg/L	< 0.001			0.001	Pass	
Method Blank									
Heavy Metals									
Lead			mg/L	< 0.01			0.01	Pass	
LCS - % Recovery									
Heavy Metals									
Lead			%	97			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Heavy Metals				Result 1					
Lead	S17-Fe07032	NCP	%	87			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Benzo(a)pyrene	S17-Fe09119	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Lead	S17-Fe06350	CP	mg/L	0.14	0.14	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0; 2 - pH 2.9; 3 - pH 9.2; 4 - Reagent (DI) water; 5 - Client sample, 6 - other

Authorised By

Nibha Vaidya	Analytical Services Manager
Ryan Hamilton	Senior Analyst-Metal (NSW)
Ryan Hamilton	Senior Analyst-Organic (NSW)

Glenn Jackson
National Operations Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Coffey Geotechnics Pty Ltd Chatswood
Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Attention: **Alex Ructtinger**

Report **533096-S**
Project name ADDITIONAL: ALEXANDRIA SCHOOL
Project ID 754-SYDEN199382
Received Date Feb 07, 2017

Client Sample ID			**HA01 0.0-0.1**	**TP3 0.4-0.6**	**TP7 0.9-1.0**
Sample Matrix			**Soil**	**Soil**	**Soil**
Eurofins | mgt Sample No.			**S17-Fe06347**	**S17-Fe06348**	**S17-Fe06349**
Date Sampled			**Jan 23, 2017**	**Jan 23, 2017**	**Jan 23, 2017**
Test/Reference	LOR	Unit			
Conductivity (1:5 aqueous extract at 25°C)	10	uS/cm	57	66	90
pH (1:5 Aqueous extract)	0.1	pH Units	6.2	7.5	7.8
% Moisture	1	%	3.4	8.0	14
Ion Exchange Properties					
Cation Exchange Capacity	0.05	meq/100g	7.6	21	24

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Conductivity (1:5 aqueous extract at 25°C)	Melbourne	Feb 14, 2017	7 Day
- Method: LTM-INO-4030			
Ion Exchange Properties	Melbourne	Feb 15, 2017	
pH (1:5 Aqueous extract)	Sydney	Feb 14, 2017	7 Day
- Method: LTM-GEN-7090 pH in soil by ISE			
% Moisture	Sydney	Feb 07, 2017	14 Day
- Method: LTM-GEN-7080 Moisture			

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NATA # 1261
Site # 18217

Company Name:	Coffey Geotechnics Pty Ltd Chatswood	**Order No.:**		**Received:**	Feb 7, 2017 12:39 PM
Address:	Level 18, Tower B, Citadel Tower 799 Pacific Highway Chatswood NSW 2067	**Report #:**	533096	**Due:**	Feb 14, 2017
		Phone:	+61 2 9406 1000	**Priority:**	5 Day
		Fax:	+61 2 9406 1002	**Contact Name:**	Alex Ructtinger
Project Name:	ADDITIONAL: ALEXANDRIA SCHOOL				
Project ID:	754-SYDEN199382				

Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail						Benzo(a)pyrene	Lead	pH (1:5 Aqueous extract)	USA Leaching Procedure	Moisture Set	Cation Exchange Capacity
Melbourne Laboratory - NATA Site # 1254 & 14271										X	X
Sydney Laboratory - NATA Site # 18217						X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794											
Perth Laboratory - NATA Site # 18217											
External Laboratory											
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**						
1	HA01 0.0-0.1	Jan 23, 2017		Soil	S17-Fe06347			X		X	X
2	TP3 0.4-0.6	Jan 23, 2017		Soil	S17-Fe06348			X		X	X
3	TP7 0.9-1.0	Jan 23, 2017		Soil	S17-Fe06349			X		X	X
4	TP3 0.4-0.6	Jan 23, 2017		US Leachate	S17-Fe06350	X	X		X		
5	TP4 0.5-0.6	Jan 23, 2017		US Leachate	S17-Fe06351		X		X		
6	TP8 0.4-0.6	Jan 23, 2017		US Leachate	S17-Fe06352		X		X		
Test Counts						1	3	3	3	3	3

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
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3. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
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Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

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****NOTE:** pH duplicates are reported as a range NOT as RPD

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mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Nephelometric Turbidity Units

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
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APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
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TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

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Surrogate Recoveries: Recoveries must lie between 50-150%-Phenols & PFASs 20-130%

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank									
Ion Exchange Properties									
Cation Exchange Capacity			meq/100g	< 0.05			0.05	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
				Result 1	Result 2	RPD			
Conductivity (1:5 aqueous extract at 25°C)	M17-Fe11373	NCP	uS/cm	64	62	3.0	30%	Pass	
pH (1:5 Aqueous extract)	S17-Fe06347	CP	pH Units	6.2	6.2	pass	30%	Pass	
% Moisture	S17-Fe03186	NCP	%	12	13	8.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Authorised By

Nibha Vaidya	Analytical Services Manager
Alex Petridis	Senior Analyst-Metal (VIC)
Huong Le	Senior Analyst-Inorganic (VIC)
Ryan Hamilton	Senior Analyst-Inorganic (NSW)

Glenn Jackson
National Operations Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Eliane McCarthy

From: Nibha Vaidya
Sent: Tuesday, 7 February 2017 12:47 PM
To: !AU04_CAU001_EnviroSampleNSW
Subject: FW: Further analysis required - Alexandria
Attachments: 531768-S_report.pdf

Additional analysis please. CEC to go to Melbourne.

Kind Regards,

Nibha Vaidya
Phone : +61 2 9900 8415
Mobile : +61 499 900 805
Email : NibhaVaidya@eurofins.com

From: Ructtinger, Alex [mailto:Alex.Ructtinger@coffey.com]
Sent: Tuesday, 7 February 2017 12:39 PM
To: Nibha Vaidya
Subject: Further analysis required - Alexandria

Hi Nibha,

Could I please schedule in the following analysis on a Standard TAT:

- CEC on samples HA01 0.0-0.1, TP3 0.4-0.6, TP7 0.9-1.0
- TCLP
  - Lead on sample TP3 0.4-0.6 and TP4 0.5-0.6
  - BaP on samples TP3 0.4-0.6 and TP8 0.4-0.6
- pH on samples HA01 0.0-0.1, TP3 0.4-0.6, TP7 0.9-1.0

Thanks,

Kind Regards,

Alex Ructtinger
Environmental Consultant

Level 19, Tower B - Citadel Tower,
799 Pacific Highway, Chatswood, NSW 2067

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NATA # 1261 Site # 18217

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NATA # 1261 Site # 20794

Perth
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NATA # 1261 Site # 18217

ABN – 50 005 085 521 e.mail : EnviroSales@eurofins.com web : www.eurofins.com.au

Sample Receipt Advice

Company name:	**Coffey Geotechnics Pty Ltd Chatswood**
Contact name:	Alex Ructtinger
Project name:	ADDITIONAL: ALEXANDRIA SCHOOL
Project ID:	754-SYDEN199382
COC number:	Not provided
Turn around time:	1 Day
Date/Time received:	Feb 28, 2017 1:00 PM
Eurofins | mgt reference:	**535907**

Sample information

- ☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : .7 degrees Celsius.
- ☑ All samples have been received as described on the above COC.
- ☑ COC has been completed correctly.
- ☑ Attempt to chill was evident.
- ☑ Appropriately preserved sample containers have been used.
- ☑ All samples were received in good condition.
- ☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ☑ Appropriate sample containers have been used.
- ☒ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

ADDITIONAL ANALYSIS FURTHER TO REPORT 533096

Contact notes

If you have any questions with respect to these samples please contact:

Nibha Vaidya on Phone : +61 (2) 9900 8400 or by e.mail: NibhaVaidya@eurofins.com

Results will be delivered electronically via e.mail to Alex Ructtinger - alexander.ructtinger@coffey.com.

Note: A copy of these results will also be delivered to the general Coffey Geotechnics Pty Ltd Chatswood email address.

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NATA # 1261 Site # 20794

Perth
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NATA # 1261
Site # 18217

Company Name:	Coffey Geotechnics Pty Ltd Chatswood	**Order No.:**		**Received:**	Feb 28, 2017 1:00 PM
Address:	Level 18, Tower B, Citadel Tower 799 Pacific Highway Chatswood NSW 2067	**Report #:**	535907	**Due:**	Mar 1, 2017
		Phone:	+61 2 9406 1000	**Priority:**	1 Day
		Fax:	+61 2 9406 1002	**Contact Name:**	Alex Ructtinger
Project Name:	ADDITIONAL: ALEXANDRIA SCHOOL				
Project ID:	754-SYDEN199382				

Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail						Benzo(a)pyrene	USA Leaching Procedure
Melbourne Laboratory - NATA Site # 1254 & 14271							
Sydney Laboratory - NATA Site # 18217						X	X
Brisbane Laboratory - NATA Site # 20794							
Perth Laboratory - NATA Site # 18217							
External Laboratory							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
1	TP8 0.4-0.6	Jan 23, 2017		US Leachate	S17-Fe28423	X	X
Test Counts						1	1

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Certificate of Analysis

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Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Coffey Geotechnics Pty Ltd Chatswood
Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Attention: **Alex Ructtinger**

Report **535907-L**
Project name ADDITIONAL: ALEXANDRIA SCHOOL
Project ID 754-SYDEN199382
Received Date Feb 28, 2017

Client Sample ID			**TP8 0.4-0.6**
Sample Matrix			**US Leachate**
Eurofins | mgt Sample No.			**S17-Fe28423**
Date Sampled			**Jan 23, 2017**
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
Benzo(a)pyrene	0.001	mg/L	< 0.001
USA Leaching Procedure			
Leachate Fluid[C01]		comment	1.0
pH (initial)	0.1	pH Units	5.9
pH (off)	0.1	pH Units	5.0
pH (USA HCl addition)	0.1	pH Units	1.5

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Polycyclic Aromatic Hydrocarbons	Sydney	Mar 01, 2017	7 Day
- Method: E007 Polyaromatic Hydrocarbons (PAH)			
USA Leaching Procedure	Sydney	Feb 28, 2017	14 Day
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			

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Company Name:	Coffey Geotechnics Pty Ltd Chatswood	**Order No.:**		**Received:**	Feb 28, 2017 1:00 PM
Address:	Level 18, Tower B, Citadel Tower 799 Pacific Highway Chatswood NSW 2067	**Report #:**	535907	**Due:**	Mar 1, 2017
		Phone:	+61 2 9406 1000	**Priority:**	1 Day
		Fax:	+61 2 9406 1002	**Contact Name:**	Alex Ructtinger
Project Name:	ADDITIONAL: ALEXANDRIA SCHOOL				
Project ID:	754-SYDEN199382				

Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail						Benzo(a)pyrene	USA Leaching Procedure
Melbourne Laboratory - NATA Site # 1254 & 14271							
Sydney Laboratory - NATA Site # 18217						X	X
Brisbane Laboratory - NATA Site # 20794							
Perth Laboratory - NATA Site # 18217							
External Laboratory							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
1	TP8 0.4-0.6	Jan 23, 2017		US Leachate	S17-Fe28423	X	X
Test Counts						1	1

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
4. Results are uncorrected for matrix spikes or surrogate recoveries.
5. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
6. Samples were analysed on an 'as received' basis. 7. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Advice.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per Kilogram

ug/l: micrograms per litre

ppb: Parts per billion

org/100ml: Organisms per 100 millilitres

MPN/100mL: Most Probable Number of organisms per 100 millilitres

mg/l: milligrams per litre

ppm: Parts per million

%: Percentage

NTU: Nephelometric Turbidity Units

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 50-150%-Phenols & PFASs 20-130%

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0; 2 - pH 2.9; 3 - pH 9.2; 4 - Reagent (DI) water; 5 - Client sample, 6 - other

Authorised By

Nibha Vaidya	Analytical Services Manager
Ryan Hamilton	Senior Analyst-Organic (NSW)

Glenn Jackson
National Operations Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Eliane McCarthy

To: Nibha Vaidya
Subject: RE: Alexandria Job (SYDEN199382) extra analysis

From: Ructtinger, Alex [mailto:Alex.Ructtinger@coffey.com]
Sent: Wednesday, 1 March 2017 10:15 AM
To: Nibha Vaidya
Subject: Alexandria Job (SYDEN199382) extra analysis

Hi Nibha,

Could you please analyse TP5-ACM, TP6-ACM and TP7-ACM (fibre cement samples) for asbestos (Presence/absence). Could you please analyse on a 3 day turnaround?

Thanks,

Kind Regards,

Alex Ructtinger
Environmental Consultant

Level 19, Tower B - Citadel Tower,
799 Pacific Highway, Chatswood, NSW 2067

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Sample Receipt Advice

Company name:	**Coffey Geotechnics Pty Ltd Chatswood**
Contact name:	Alex Ructtinger
Project name:	ADDITIONAL: ALEXANDRIA SCHOOL
Project ID:	754-SYDEN199382
COC number:	Not provided
Turn around time:	3 Day
Date/Time received:	Mar 1, 2017 10:15 AM
Eurofins | mgt reference:	**536147**

Sample information

- ☑ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ☑ Sample Temperature of a random sample selected from the batch as recorded by Eurofins | mgt Sample Receipt : .7 degrees Celsius.
- ☑ All samples have been received as described on the above COC.
- ☑ COC has been completed correctly.
- ☑ Attempt to chill was evident.
- ☑ Appropriately preserved sample containers have been used.
- ☑ All samples were received in good condition.
- ☑ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ☑ Appropriate sample containers have been used.
- ☒ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Sample TP6-ACM not received, hence analysis cancelled

Contact notes

If you have any questions with respect to these samples please contact:

Nibha Vaidya on Phone : +61 (2) 9900 8400 or by e.mail: NibhaVaidya@eurofins.com

Results will be delivered electronically via e.mail to Alex Ructtinger - alexander.ructtinger@coffey.com.

Note: A copy of these results will also be delivered to the general Coffey Geotechnics Pty Ltd Chatswood email address.

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NATA # 1261
Site # 18217

Company Name:	Coffey Geotechnics Pty Ltd Chatswood	**Order No.:**		**Received:**	Mar 1, 2017 10:15 AM
Address:	Level 18, Tower B, Citadel Tower 799 Pacific Highway Chatswood NSW 2067	**Report #:**	536147	**Due:**	Mar 6, 2017
		Phone:	+61 2 9406 1000	**Priority:**	3 Day
		Fax:	+61 2 9406 1002	**Contact Name:**	Alex Ructtinger
Project Name:	ADDITIONAL: ALEXANDRIA SCHOOL				
Project ID:	754-SYDEN199382				

Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail						Asbestos Absence / Presence
Melbourne Laboratory - NATA Site # 1254 & 14271						
Sydney Laboratory - NATA Site # 18217						X
Brisbane Laboratory - NATA Site # 20794						
Perth Laboratory - NATA Site # 18217						
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	TP7-ACM	Jan 23, 2017		Other	S17-Ma01333	X
2	TP5-ACM	Jan 23, 2017		Other	S17-Ma01334	X
Test Counts						2

Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Coffey Geotechnics Pty Ltd Chatswood
Level 18, Tower B, Citadel Tower 799 Pacific Highway
Chatswood
NSW 2067

Attention:	Alex Ructtinger
Report	536147-AID
Project Name	ADDITIONAL: ALEXANDRIA SCHOOL
Project ID	754-SYDEN199382
Received Date	Mar 01, 2017
Date Reported	Mar 03, 2017

Methodology:

Asbestos ID	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. Bulk samples include building materials, soils and ores.
Subsampling Soil Samples	The whole sample submitted is first dried and then sieved through a 10mm sieve followed by a 2mm sieve. All fibrous matter viz greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) Iron ores - Sampling and Sample preparation procedures is employed. Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis in accordance with AS 4964-2004.
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated and where required interfering organic fibres or matter may be removed by treating the sample for several hours at a temperature not exceeding 400 ± 30°C. The resultant material is then ground and examined in accordance with AS 4964-2004.
Limit of Reporting	The nominal detection limit of the AS4964 method is around 0.01%. The examination of large sample sizes (at least 500 ml is recommended) may improve the likelihood of identifying asbestos material in the greater than 2 mm fraction. The NEPM screening level of 0.001% w/w asbestos in soil for FA and AF (i.e. non-bonded/friable asbestos) only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres. NOTE: NATA News, September 2011 – page 34, states, “Weighing of fibres is problematic and can lead to loss of fibres and potential exposure for laboratory analysts. To request laboratories to report information which is outside the scope of AS 4964-2004 and the scope of their accreditation is misleading and is most unwise” therefore such values reported are outside the scope of Eurofins | mgt NATA accreditation as designated by an asterisk.

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Accredited for compliance with ISO/IEC 17025–Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Project Name ADDITIONAL: ALEXANDRIA SCHOOL
Project ID 754-SYDEN199382
Date Sampled Jan 23, 2017
Report 536147-AID

Client Sample ID	Eurofins | mgt Sample No.	Date Sampled	Sample Description	Result
TP7-ACM	17-Ma01333	Jan 23, 2017	Approximate Sample 8g / 40x25x3mm Sample consisted of: Grey compressed fibre cement material	Chrysotile, amosite and crocidolite asbestos detected.
TP5-ACM	17-Ma01334	Jan 23, 2017	Approximate Sample 32g / 80x70x4mm Sample consisted of: Grey compressed fibre cement material	Chrysotile, amosite and crocidolite asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Mar 02, 2017	Indefinite

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Melbourne
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Site # 1254 & 14271

Sydney
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Brisbane
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NATA # 1261 Site # 20794

Perth
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NATA # 1261
Site # 18217

Company Name:	Coffey Geotechnics Pty Ltd Chatswood	**Order No.:**		**Received:**	Mar 1, 2017 10:15 AM
Address:	Level 18, Tower B, Citadel Tower 799 Pacific Highway Chatswood NSW 2067	**Report #:**	536147	**Due:**	Mar 6, 2017
		Phone:	+61 2 9406 1000	**Priority:**	3 Day
		Fax:	+61 2 9406 1002	**Contact Name:**	Alex Ructtinger
Project Name:	ADDITIONAL: ALEXANDRIA SCHOOL				
Project ID:	754-SYDEN199382				

Eurofins | mgt Analytical Services Manager : Nibha Vaidya

Sample Detail						Asbestos Absence / Presence
Melbourne Laboratory - NATA Site # 1254 & 14271						
Sydney Laboratory - NATA Site # 18217						X
Brisbane Laboratory - NATA Site # 20794						
Perth Laboratory - NATA Site # 18217						
External Laboratory						
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**	
1	TP7-ACM	Jan 23, 2017		Other	S17-Ma01333	X
2	TP5-ACM	Jan 23, 2017		Other	S17-Ma01334	X
Test Counts						2

Internal Quality Control Review and Glossary

General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Advice.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
COC	Chain of custody
SRA	Sample Receipt Advice
ISO	International Stardards Organisation
AS	Australian Standards
WA DOH	Western Australia Department of Health
NOHSC	National Occupational Health and Safety Commission
ACM	Bonded asbestos-containing material means any material containing more than 1% asbestos and comprises asbestos-containing-material which is in sound condition, although possibly broken or fragmented, and where the asbestos is bound in a matrix such as cement or resin. Common examples of ACM include but are not limited to: pipe and boiler insulation, sprayed-on fireproofing, troweled-on acoustical plaster, floor tile and mastic, floor linoleum, transite shingles, roofing materials, wall and ceiling plaster, ceiling tiles, and gasket materials. This term is restricted to material that cannot pass a 7 mm x 7 mm sieve. This sieve size is selected because it approximates the thickness of common asbestos cement sheeting and for fragments to be smaller than this would imply a high degree of damage and hence potential for fibre release.
FA	FA comprises friable asbestos material and includes severely weathered cement sheet, insulation products and woven asbestos material. This type of friable asbestos is defined here as asbestos material that is in a degraded condition such that it can be broken or crumbled by hand pressure. This material is typically unbonded or was previously bonded and is now significantly degraded (crumbling).
PACM	Presumed Asbestos-Containing Material means thermal system insulation and surfacing material found in buildings, vessels, and vessel sections constructed no later than 1980 that are assumed to contain greater than one percent asbestos but have not been sampled or analyzed to verify or negate the presence of asbestos.
AF	Asbestos fines (AF) are defined as free fibres, or fibre bundles, smaller than 7mm. It is the free fibres which present the greatest risk to human health, although very small fibres (< 5 microns in length) are not considered to be such a risk. AF also includes small fragments of bonded ACM that pass through a 7 mm x 7 mm sieve. (Note that for bonded ACM fragments to pass through a 7 mm x 7 mm sieve implies a substatntial degree of damage which increases the potential for fibre release.)
AC	Asbestos cement means a mixture of cement and asbestos fibres (typically 90:10 ratios).