










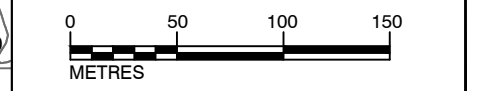
Figure 10: Groundwater Total Phenol Distribution (December 2016)

291000

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- KEY:**
-  Former WA0047-02 Waste Licence Boundary
 -  Surface Water Monitoring Point
 -  Groundwater Monitoring Point
 -  Leachate Monitoring Point
 -  Landfill Gas Monitoring Well
 -  Inferred Groundwater Contour (mAOD)

- Total Phenol**
-  <1 µg/l
 -  1 µg/l - <10 µg/l
 -  >10 µg/l



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
0	27/01/2017					

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Client
 **Kildare County Council**
 Comhairle Contae Chill Dara

Project
**KERDIFFSTOWN LANDFILL
 REMEDIATION PROJECT**

Drawing title
**FIGURE 10
 GROUNDWATER TOTAL PHENOL
 DISTRIBUTION. DECEMBER 2016**

Drawing status
 Scale: AS SHOWN | DO NOT SCALE

Jacobs No. 32EW5602

Drawing number 32EW5602-00X_XX | Rev 0

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D:\UB\F\101\Drawings\Kerdiffstown Landfills - Drawings\3 - Draft Drawings\Drawings\Figure 10 January 2017.dwg - 27/01/2017 11:53:39 - Figure 10 - airoberts

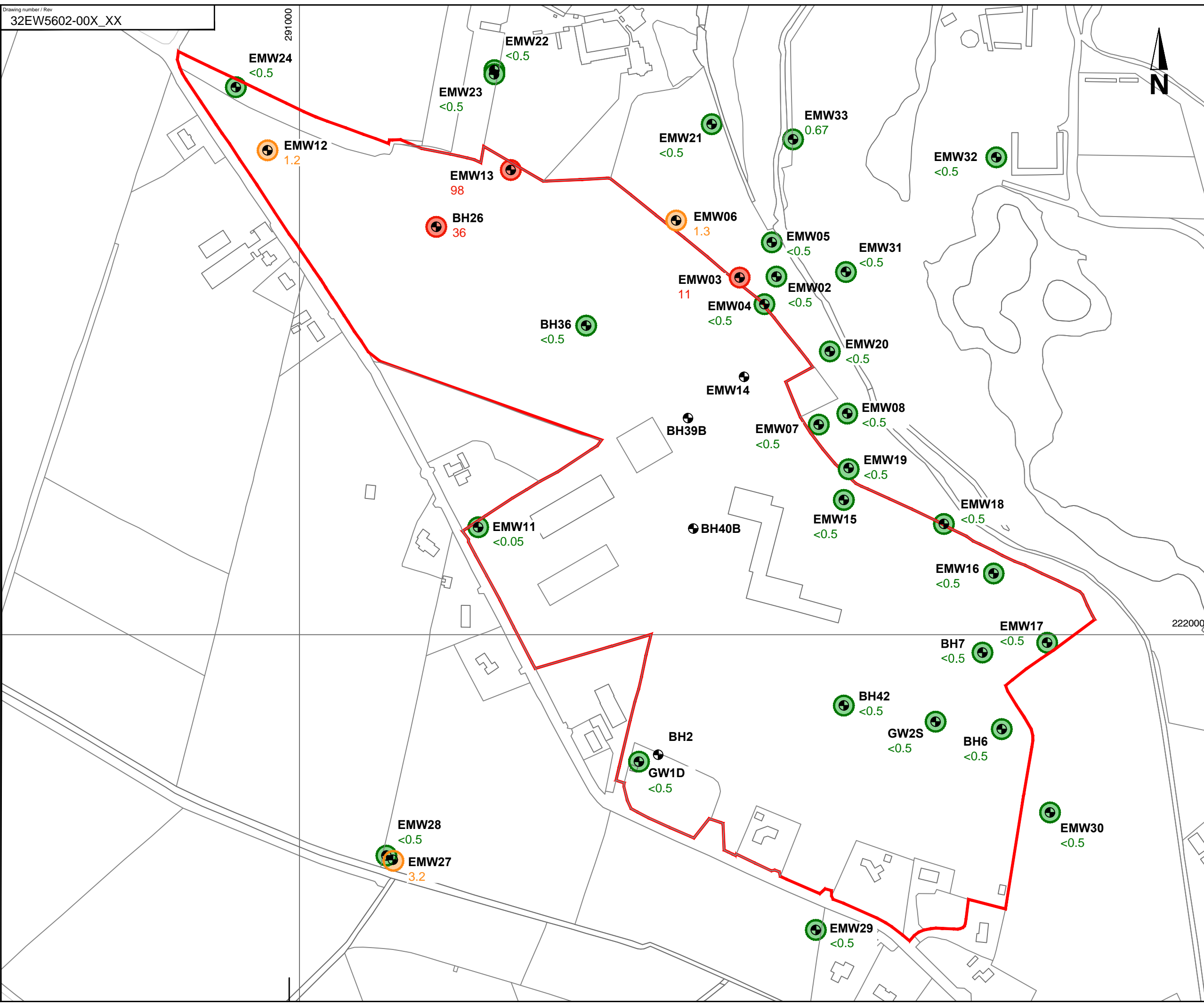








Figure 11: Groundwater Mecoprop Distribution (December 2016)




291000

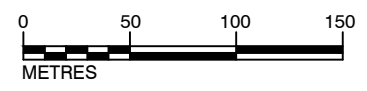
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KEY:

-  Former WA0047-02 Waste Licence Boundary
-  Surface Water Monitoring Point
-  Groundwater Monitoring Point
-  Leachate Monitoring Point
-  Landfill Gas Monitoring Well
-  Inferred Groundwater Contour (mAOD)

Mecoprop

-  <0.25 µg/l
-  0.25 µg/l - 10 µg/l
-  >10 µg/l



Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
0	27/07/2016					



Client
Kildare County Council
Comhairle Contae Chill Dara

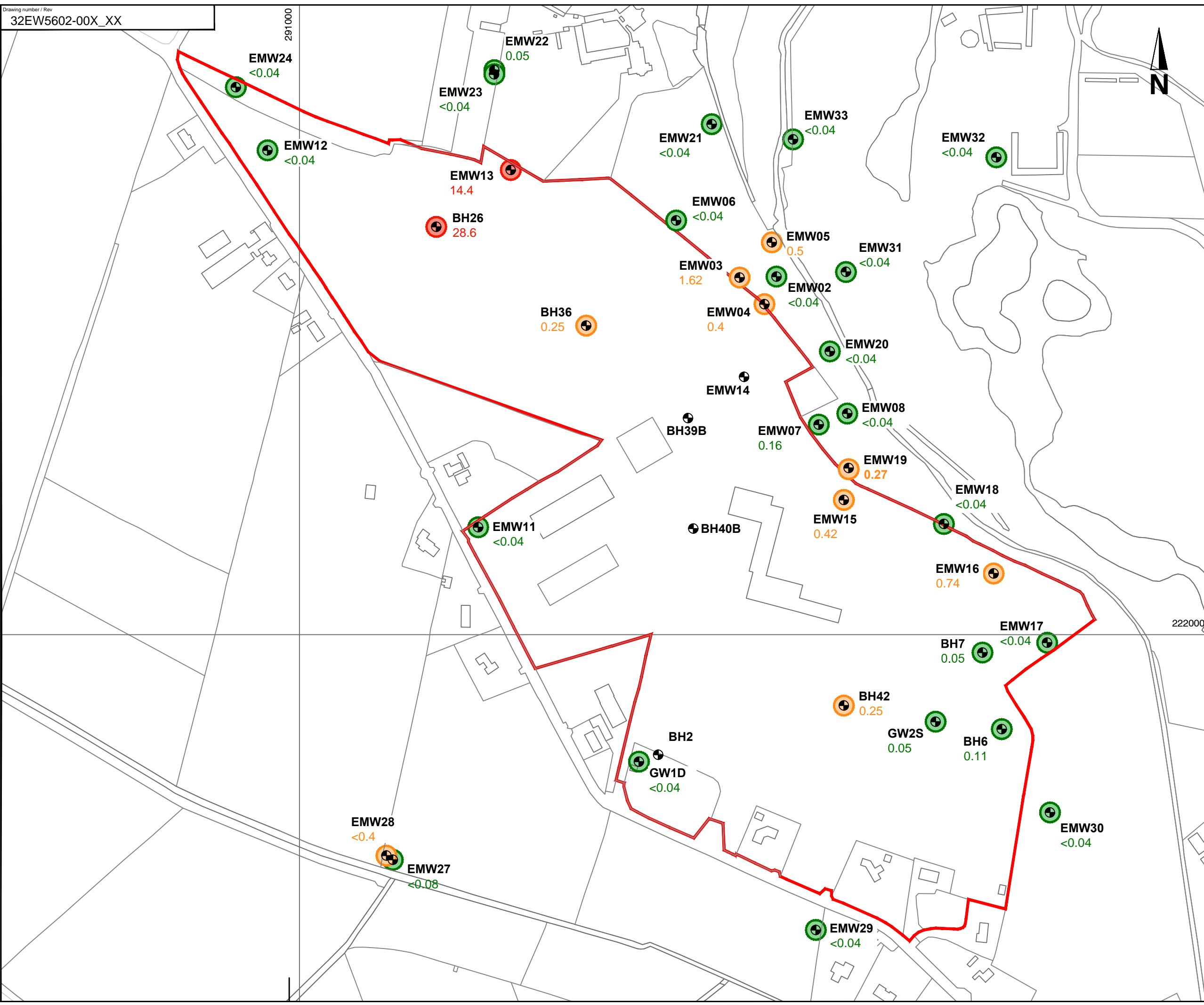
Project
KERDIFFSTOWN LANDFILL
SITE REMEDIATION PROJECT

Drawing title
FIGURE 11
GROUNDWATER MECOPROP
DISTRIBUTION. DECEMBER 2016

Scale	AS SHOWN	DO NOT SCALE
Jacobs No.	32EW5602	
Client no.		
Drawing number	32EW5602-00X_XX	Rev 0

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D:\UB\FLO1\Data\MSustainable Solutions\Kerdiffstown Landfills - Drawings\5.3 - Draft Drawings\Drawings\Figure 11 January 2017.dwg - 27/01/2017 12:00:48 - Figure 11 - airberts



Appendix C. Borehole Logs

Glover Site Investigations Ltd						Site Kerdiffstown Landfill		Borehole Number W0047EMW01	
Boring Method Cable Percussion		Casing Diameter 200mm cased to 7.30m		Ground Level (mOD) 81.15		Client		Job Number 10-161	
		Location 291473.8 E 222320.7 N		Dates 10/05/2010		Engineer EPA		Sheet 1/1	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.50	D1				80.65	(0.50)	MADE GROUND: Brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse		
1.00	D2				80.15	(0.50)	Brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is subrounded to subangular fine to coarse (Possible Made Ground)		
1.30	D3				79.85	(0.30)	Brown mottled grey and orange sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse		
2.00	D4				79.15	(0.70)	Brown sandy gravelly CLAY with some decayed organic matter. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse		
2.50	D5					(1.40)	Brown sandy very gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse		
3.00	D6								
3.40	D7				77.75	3.40	Grey and dark grey sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse		
4.00	D8					(1.60)			
5.00	D9				76.15	5.00	Brown gravelly sandy CLAY. Sand is fine to coarse. Gravel is subangular to rounded fine to coarse (wet)		
6.00	D10				75.15	6.00	Brown grey sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse		
7.00	D11			10/05/2010:	73.85	7.30	Complete at 7.30m		

Remarks
 Borehole backfilled due to health and safety concerns over pedestrians in vicinity.
 Standpipe installed.
 Water added from 1.80m to 7.30m.

Scale (approx)	1:50	Logged By	JC/HH
Figure No.		10-161.W0047EMW01	

Glover Site Investigations Ltd

Site
Kerdiffstown Landfill

Borehole Number
W0047EMW01

Installation Type Gas and Water Monitoring	Dimensions Internal Diameter of Tube [A] = 50 mm Diameter of Filter Zone = 200 mm	Client EPA	Job Number 10-161
	Location 291473.8 E 222320.7 N		Ground Level (mOD) 81.15

Legend	Water	Instr (A)	Level (mOD)	Depth (m)	Description	Groundwater Strikes During Drilling														
						Date	Time	Depth Struck (m)	Casing Depth (m)	Inflow Rate	Readings				Depth Sealed (m)					
			80.80	0.35	Concrete															
			80.25	0.90	Bentonite Seal															
			80.15	1.00	Fine Gravel Filter															
Groundwater Observations During Drilling																				
						Start of Shift					End of Shift									
						Date	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)				
						10/05/10							7.30							
Instrument Groundwater Observations																				
Inst. [A] Type :																				
					Slotted Standpipe	Date	Instrument [A]			Remarks										
						Time	Depth (m)	Level (mOD)												
			73.85	7.30																

Remarks
Geosock fitted.

Glover Site Investigations Ltd

Site
Kerdiffstown Landfill

Borehole Number
W0047EMW02

Boring Method Cable Percussion	Casing Diameter 200mm cased to 6.00m	Ground Level (mOD) 81.21	Client	Job Number 10-161
	Location 291462.4 E 222360.1 N	Dates 10/05/2010	Engineer EPA	Sheet 1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.60	D1				80.61	(0.60) 0.60	TOPSOIL		
1.00	D2						Brown orange slightly gravelly sandy CLAY. Sand is fine to coarse. Gravel is subrounded to subangular fine to coarse		
2.00	D3					(2.80)			
3.00	D4								
3.40	D5				77.81	3.40 (0.40)	Grey brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse		
3.80	D6				77.41	3.80 (0.20)	Brown orange sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse		
4.00	D7				77.21	4.00	Grey clayey very gravelly fine to coarse SAND. Gravel is angular to subrounded fine to coarse		
5.00	D8			Water Strike(1) at 4.80m.		(1.50)			∇1
6.00	D9			10/05/2010:	75.71	5.50 (0.50)	Dark grey sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse		
					75.21	6.00	Complete at 6.00m		

Remarks Standpipe installed. Double security lockable cover fitted with security tags.	Scale (approx)	Logged By
	1:50	JC/HH
	Figure No. 10-161.W0047EMW02	

Glover Site Investigations Ltd

Site
Kerdiffstown Landfill

Borehole Number
W0047EMW02

Installation Type Gas and Water Monitoring	Dimensions Internal Diameter of Tube [A] = 50 mm Diameter of Filter Zone = 200 mm	Client EPA	Job Number 10-161
	Location 291462.4 E 222360.1 N		Ground Level (mOD) 81.21

Legend	Water	Instr (A)	Level (mOD)	Depth (m)	Description	Groundwater Strikes During Drilling										
						Date	Time	Depth Struck (m)	Casing Depth (m)	Inflow Rate	Readings				Depth Sealed (m)	
			80.86	0.35	Concrete			4.80		Water Strike						
			80.31	0.90	Bentonite Seal											
			80.21	1.00	Fine Gravel Filter											
Groundwater Observations During Drilling																
						Start of Shift					End of Shift					
						Date	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)
						10/05/10							6.00			
Instrument Groundwater Observations																
Inst. [A] Type :																
					Slotted Standpipe	Date	Instrument [A]			Remarks						
						Time	Depth (m)	Level (mOD)								
			75.21	6.00												

Remarks
 Two lockable flush covers fitted.
 Geosock fitted.
 Gas tap fitted.

Glover Site Investigations Ltd						Site Kerdiffstown Landfill		Borehole Number W0047EMW03	
Boring Method Symmetrix Drilling		Casing Diameter 150mm cased to 17.50m		Ground Level (mOD) 86.26		Client EPA		Job Number 10-161	
		Location 291418 E 222372.8 N		Dates 10/05/2010		Engineer EPA		Sheet 1/2	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.00-1.00	D1					(1.00)	Brown sandy subangular to subrounded fine to coarse GRAVEL. Sand is fine to coarse		
1.00-2.50	D2				85.26	1.00 (1.50)	Brown fine to medium SAND with occasional lenses of silt		
2.50-4.00	D3				83.76	2.50 (1.50)	Brown orange gravelly silty fine to coarse SAND. Gravel is subangular to subrounded fine to coarse		
4.00-5.50	D4				82.26	4.00 (1.50)	Brown grey sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse		
5.50-7.00	D5				80.76	5.50	Dark grey and black sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse (damp)		∇1
7.00-8.50	D6					(3.00)			
8.50-9.00	D7				77.76	8.50 (1.50)	Grey sandy gravelly silty CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse (damp)		
					76.26	10.00			
Remarks Double security lockable cover fitted with security tags. Standpipe installed.								Scale (approx) 1:50	Logged By JC/HH
								Figure No. 10-161.W0047EMW03	

Glover Site Investigations Ltd

Site
Kerdiffstown Landfill

Borehole Number
W0047EMW03

Boring Method Symmetrix Drilling	Casing Diameter 150mm cased to 17.50m	Ground Level (mOD) 86.26	Client	Job Number 10-161
	Location 291418 E 222372.8 N	Dates 10/05/2010	Engineer EPA	Sheet 2/2

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
10.00-11.50	D8						Grey sandy gravelly silty CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse (damp) becoming wet below 11.50m		
11.50-13.00	D9					(4.00)			
13.00-14.50	D10								
14.50-16.00	D11				72.26	14.00	Grey sandy silty subangular to subrounded fine to coarse GRAVEL. Sand is fine to coarse (wet)		
16.00-17.50	D12					(2.50)			
					69.76	16.50	Grey sandy gravelly CLAY with low cobble and boulder content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse. Cobbles and boulders are subangular to subrounded		
				10/05/2010:	68.76	17.50	Complete at 17.50m		

Remarks	Scale (approx)	Logged By
	1:50	JC/HH
	Figure No. 10-161.W0047EMW03	

Glover Site Investigations Ltd

Site
Kerdiffstown Landfill

Borehole Number
W0047EMW03

Installation Type Gas and Water Monitoring	Dimensions Internal Diameter of Tube [A] = 50 mm Diameter of Filter Zone = 150 mm	Client EPA	Job Number 10-161
	Location 291418 E 222372.8 N		Ground Level (mOD) 86.26

Legend	Water	Instr (A)	Level (mOD)	Depth (m)	Description	Groundwater Strikes During Drilling														
						Date	Time	Depth Struck (m)	Casing Depth (m)	Inflow Rate	Readings				Depth Sealed (m)					
			85.91	0.35	Concrete Bentonite Seal															
			84.96	1.30	Fine Gravel Filter			6.00		Water Strike										
			84.76	1.50																
						Groundwater Observations During Drilling														
						Start of Shift					End of Shift									
						Date	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	Date	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)			
						10/05/10								17.50						
						Instrument Groundwater Observations														
						Inst. [A] Type :														
						Instrument [A]			Remarks											
						Date	Time	Depth (m)								Level (mOD)				
			68.76	17.50	Slotted Standpipe															

Remarks
Two lockable flush covers fitted.
Geosock fitted.
Gas tap fitted.

Glover Site Investigations Ltd

Site
Kerdiffstown Landfill

Borehole Number
W0047EMW04

Boring Method Cable Percussion	Casing Diameter 200mm cased to 7.00m	Ground Level (mOD) 83.72	Client	Job Number 10-161
	Location 291446.8 E 222346.7 N	Dates 10/05/2010	Engineer EPA	Sheet 1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.50	D1				83.42	(0.30) 0.30	TOPSOIL		
1.00	D2						Brown slightly clayey gravelly fine to coarse SAND with rootlets. Gravel is subrounded to rounded fine to coarse		
1.50	D3					(2.30)			
2.00	D4								
2.60	D5			Slight Flow(1) at 3.00m.	81.12	2.60	Grey brown sandy subrounded to rounded fine to coarse GRAVEL. Sand is medium to coarse		∇1
3.40	D6				80.32	3.40	Brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is subrounded to subangular fine to coarse (damp)		
3.90	D7				79.82	3.90	Grey sandy gravelly CLAY. Sand is fine to coarse. Gravel is subrounded to angular fine to coarse (damp)		
4.50	D8								
5.50	D9					(3.10)			
7.00	D10			10/05/2010:	76.72	7.00	Complete at 7.00m		

Remarks Standpipe installed. Double security lockable cover fitted with security tags. Water added from 2.60m to 3.00m.	Scale (approx)	Logged By
	1:50	JC/HH
	Figure No. 10-161.W0047EMW04	

Glover Site Investigations Ltd

Site
Kerdiffstown Landfill

Borehole Number
W0047EMW04

Installation Type Gas and Water Monitoring	Dimensions Internal Diameter of Tube [A] = 50 mm Diameter of Filter Zone = 200 mm	Client EPA	Job Number 10-161
	Location 291446.8 E 222346.7 N		Ground Level (mOD) 83.72

Legend	Water	Instr (A)	Level (mOD)	Depth (m)	Description	Groundwater Strikes During Drilling											
						Date	Time	Depth Struck (m)	Casing Depth (m)	Inflow Rate	Readings				Depth Sealed (m)		
			83.37	0.35	Concrete			3.00		Slight Flow							
			82.82 82.72	0.90 1.00	Bentonite Seal Fine Gravel Filter												
Groundwater Observations During Drilling																	
						Start of Shift					End of Shift						
						Date	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	Date	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)
						10/05/10								7.00			
Instrument Groundwater Observations																	
Inst. [A] Type :																	
					Slotted Standpipe	Instrument [A]			Remarks								
						Date	Time	Depth (m)	Level (mOD)								
			76.72	7.00													

Remarks
Two lockable flush covers fitted.
Geosock fitted.
Gas tap fitted.

Glover Site Investigations Ltd							Site	Borehole Number	
Boring Method		Casing Diameter		Ground Level (mOD)		Client	Kerdiffstown Landfill	W0047EMW05	
Cable Percussion		200mm cased to 6.00m		79.78		Job Number			
		Location		Dates		Engineer	Sheet		
		291461.5 E 222398.7 N		10/05/2010		EPA	1/1		
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.50	D1				79.38	(0.40) 0.40	TOPSOIL		
						(0.60)	Brown sandy CLAY with rootlets. Sand is fine to coarse		
1.00	D2				78.78	1.00	Brown mottled orange slightly gravelly sandy silty CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse (damp)		
1.60	D3					(1.00)			
2.00	D4				77.78	2.00	Orange brown clayey gravelly fine to coarse SAND. Gravel is subrounded to subangular fine to coarse		
						(1.50)			∇1
3.00	D5			Slight Seepage(1) at 3.00m.					
3.50	D6				76.28	3.50	Orange brown sandy gravelly CLAY with low cobble content. Sand is fine to coarse. Gravel is subrounded to angular fine to coarse. Cobbles are subrounded to angular		
4.00	D7					(2.50)			
5.00	D8								
6.00	D9			Water Strike(2) at 6.00m. 10/05/2010:	73.78	6.00	Complete at 6.00m		∇2

Remarks Standpipe installed. Double security lockable cover fitted with security tags. Water added from 2.00m to 3.00m.	Scale (approx)	Logged By
	1:50	JC/HH
	Figure No. 10-161.W0047EMW05	

Glover Site Investigations Ltd

Site
Kerdiffstown Landfill
Borehole Number
W0047EMW05

Installation Type Gas and Water Monitoring	Dimensions Internal Diameter of Tube [A] = 50 mm Diameter of Filter Zone = 200 mm	Client	Job Number 10-161
	Location 291461.5 E 222398.7 N	Ground Level (mOD) 79.78	Engineer EPA
			Sheet 1/1

Legend	Water	Instr (A)	Level (mOD)	Depth (m)	Description	Groundwater Strikes During Drilling										
						Date	Time	Depth Struck (m)	Casing Depth (m)	Inflow Rate	Readings				Depth Sealed (m)	
			79.43	0.35	Concrete			3.00		Slight Seepage						
			78.88	0.90	Bentonite Seal			6.00		Water Strike						
			78.78	1.00	Fine Gravel Filter											
						Groundwater Observations During Drilling										
						Start of Shift					End of Shift					
						Date	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)
						10/05/10							6.00			
						Instrument Groundwater Observations										
						Inst. [A] Type :										
						Date	Instrument [A]			Remarks						
							Time	Depth (m)	Level (mOD)							
			73.78	6.00	Slotted Standpipe											

Remarks
Two lockable flush covers fitted.
Geosock fitted.
Gas tap fitted.

Glover Site Investigations Ltd						Site Kerdiffstown Landfill		Borehole Number W0047EMW06	
Boring Method Cable Percussion		Casing Diameter 200mm cased to 7.30m		Ground Level (mOD) 87.20		Client EPA		Job Number 10-161	
		Location 291359.8 E 222419.7 N		Dates 11/05/2010		Engineer EPA		Sheet 1/1	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.50	D1				87.00	(0.20)	TOPSOIL		
					86.70	0.20 (0.30) 0.50	Brown silty gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse		
1.00	D2					(1.40)	Orange brown slightly silty slightly gravelly medium to coarse SAND. Gravel is subrounded to subangular fine to coarse		
1.50	D3								
2.00	D4				85.30	1.90	Grey slightly clayey very gravelly fine to coarse SAND with low cobble and boulder content. Gravel is subangular to rounded fine to coarse. Cobbles and boulders are subangular to rounded		
2.50	D5				84.70	2.50	Grey sandy subrounded to angular fine to coarse GRAVEL with low to medium cobble and boulder content. Sand is fine to coarse. Cobbles and boulders are subrounded to angular		
3.00	D6								
4.00	D7					(3.40)			
5.00	D8								
6.00	D9				81.30	5.90	Grey sandy gravelly CLAY with low to medium cobble content. Sand is medium to coarse. Gravel is subrounded to subangular fine to coarse. Cobbles are subrounded to subangular		
						(1.40)			
7.00	D10			11/05/2010:	79.90	7.30	Complete at 7.30m		

Remarks
Standpipe installed.
Double security lockable cover fitted with security tags.
Chiselling from 2.10m to 2.40m for 0.5 hours. Water added from 1.00m to 7.30m.

Scale (approx)
1:50

Logged By
JC/HH

Figure No.
10-161.W0047EMW06

Glover Site Investigations Ltd						Site Kerdiffstown Landfill		Borehole Number W0047EMW07	
Boring Method Cable Percussion		Casing Diameter 200mm cased to 6.00m		Ground Level (mOD) 81.02		Client		Job Number 10-161	
		Location 291513.1 E 222208.2 N		Dates 11/05/2010		Engineer EPA		Sheet 1/1	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.50	D1				80.77	(0.25)	TOPSOIL		
						0.25	Brown slightly gravelly sandy CLAY with roots, rootlets and occasional decayed organic matter. Sand is fine to coarse. Gravel is subangular fine to medium (Possible Made Ground)		
					80.42	(0.35)			
						0.60	Brown sandy gravelly CLAY with roots. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse		
1.00	D2					(0.70)			
1.40	D3				79.72	1.30	Brown mottled grey sandy gravelly silty CLAY. Sand is fine to coarse. Gravel is subrounded to subangular fine to coarse (damp)		
						(1.70)			
2.50	D4						Brown grey slightly clayey slightly gravelly fine to coarse SAND. Gravel is subrounded fine to coarse		
3.00	D5				78.02	3.00			
						(1.00)	Grey slightly silty sandy subangular to rounded fine to coarse GRAVEL. Sand is fine to coarse (wet)		▽1
4.00	D6			Water Strike(1) at 3.80m.	77.02	4.00			
5.00	D7					(2.00)	Complete at 6.00m		
6.00	D8			11/05/2010:	75.02	6.00			

Remarks
 Water strike at 3.80m rose to 3.0m after 1.0min.
 Standpipe installed.
 Double security lockable cover fitted with security tags.

Scale (approx)	Logged By
1:50	JC/HH
Figure No.	
10-161.W0047EMW07	

Glover Site Investigations Ltd

Site
Kerdiffstown Landfill

Borehole Number
W0047EMW07

Installation Type Gas and Water Monitoring	Dimensions Internal Diameter of Tube [A] = 50 mm Diameter of Filter Zone = 200 mm	Client EPA	Job Number 10-161
	Location 291513.1 E 222208.2 N		Ground Level (mOD) 81.02

Legend	Water	Instr (A)	Level (mOD)	Depth (m)	Description	Groundwater Strikes During Drilling										
						Date	Time	Depth Struck (m)	Casing Depth (m)	Inflow Rate	Readings				Depth Sealed (m)	
			80.67	0.35	Concrete			3.80		Water Strike						
			80.12	0.90	Bentonite Seal											
			80.02	1.00	Fine Gravel Filter											
Groundwater Observations During Drilling																
						Start of Shift					End of Shift					
						Date	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)
						11/05/10							6.00			
Instrument Groundwater Observations																
Inst. [A] Type :																
					Slotted Standpipe	Instrument [A]				Remarks						
						Date	Time	Depth (m)	Level (mOD)							
			75.02	6.00												

Remarks
Two lockable flush covers fitted.
Geosock fitted.
Gas tap fitted.

Glover Site Investigations Ltd

Site
Kerdiffstown Landfill

Borehole Number
W0047EMW08

Boring Method Cable Percussion	Casing Diameter 200mm cased to 5.00m	Ground Level (mOD) 80.34	Client	Job Number 10-161
	Location 291539.3 E 222230.6 N	Dates 12/05/2010	Engineer EPA	Sheet 1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.50	D1				80.14	(0.20) 0.20	TOPSOIL		
1.00	D2				79.34	(0.80) 1.00	Grey brown slightly silty very gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse		
1.50	D3					(1.00) 1.00	Brown slightly sandy slightly silty gravelly CLAY. Sand is fine to medium. Gravel is subangular to subrounded fine to coarse		
2.00	D4				78.34	2.00	Grey slightly silty slightly gravelly fine to medium SAND. Gravel is subangular to subrounded fine to coarse		▼1
3.00	D5			Water Strike(1) at 2.50m, rose to 2.00m in 5 mins.		(1.10) 3.10	Grey very gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse		▽1
4.00	D6					(1.90) 3.10			
5.00	D7			12/05/2010:	75.34	5.00	Complete at 5.00m		

Remarks Standpipe installed. Double security lockable cover fitted with security tags.	Scale (approx)	Logged By
	1:50	JC/HH
	Figure No. 10-161.W0047EMW08	

Glover Site Investigations Ltd

Site
Kerdiffstown Landfill

Borehole Number
W0047EMW08

Installation Type Gas and Water Monitoring	Dimensions Internal Diameter of Tube [A] = 50 mm Diameter of Filter Zone = 200 mm	Client EPA	Job Number 10-161
	Location 291539.3 E 222230.6 N		Ground Level (mOD) 80.34

Legend	Water	Instr (A)	Level (mOD)	Depth (m)	Description	Groundwater Strikes During Drilling										
						Date	Time	Depth Struck (m)	Casing Depth (m)	Inflow Rate	Readings				Depth Sealed (m)	
			79.99	0.35	Concrete			2.50		Water Strike	2.00					
			79.54	0.80	Bentonite Seal											
			79.34	1.00	Fine Gravel Filter											
Groundwater Observations During Drilling																
						Start of Shift					End of Shift					
						Date	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)
						12/05/10							5.00			
Instrument Groundwater Observations																
Inst. [A] Type :																
					Slotted Standpipe	Date	Instrument [A]			Remarks						
						Time	Depth (m)	Level (mOD)								
			75.34	5.00												

Remarks
Two lockable flush covers fitted.
Geosock fitted.
Gas tap fitted.

Glover Site Investigations Ltd

Site
Kerdiffstown Landfill

Borehole Number
W0047EMW09

Boring Method Symmetrix Drilling	Casing Diameter 150mm cased to 20.50m	Ground Level (mOD) 98.27	Client	Job Number 10-161
	Location 290988.2 E 222399.1 N	Dates 11/05/2010	Engineer EPA	Sheet 1/3

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.00-1.00	D1						Brown orange slightly clayey slightly gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse		
1.00-2.50	D2					(2.50)			
2.50-4.00	D3				95.77	2.50	Brown slightly clayey gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse		
4.00-5.50	D4				94.27	4.00	Grey brown gravelly clayey fine to coarse SAND. Gravel is subangular to subrounded fine to coarse		
5.50-7.00	D5								
7.00-8.50	D6					(6.00)			
8.50-10.00	D7								
					88.27	10.00			

Remarks Standpipe installed. Double security lockable cover fitted with security tags.	Scale (approx)	Logged By
	1:50	JC/HH
	Figure No. 10-161.W0047EMW09	

Glover Site Investigations Ltd							Site Kerdiffstown Landfill		Borehole Number W0047EMW09	
Boring Method Symmetrix Drilling		Casing Diameter 150mm cased to 20.50m		Ground Level (mOD) 98.27		Client EPA		Job Number 10-161		
		Location 290988.2 E 222399.1 N		Dates 11/05/2010		Engineer EPA		Sheet 2/3		
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
10.00-11.50	D8					(1.50)	Grey brown gravelly clayey fine to coarse SAND. Gravel is subangular to subrounded fine to coarse			
11.50-13.00	D9				86.77	11.50 (1.50)	Grey brown slightly gravelly clayey fine to coarse SAND. Gravel is subangular to subrounded fine to coarse			
13.00-14.50	D10				85.27	13.00	Grey brown sandy subangular to subrounded fine to coarse GRAVEL. Sand is fine to coarse			
14.50-16.00	D11					(4.50)				
16.00-17.50	D12									
17.50-19.00	D13				80.77	17.50 (1.50)	Grey sandy subangular to subrounded fine to coarse GRAVEL. Sand is fine to coarse			
19.00-20.50	D14				79.27	19.00 (1.00)	Possible weathered BEDROCK or BOULDERS			
					78.27	20.00				
Remarks								Scale (approx)	Logged By	
								1:50	JC/HH	
								Figure No. 10-161.W0047EMW09		

Glover Site Investigations Ltd							Site Kerdiffstown Landfill		Borehole Number W0047EMW09	
Boring Method Symmetrix Drilling		Casing Diameter 150mm cased to 20.50m		Ground Level (mOD) 98.27		Client		Job Number 10-161		
		Location 290988.2 E 222399.1 N		Dates 11/05/2010		Engineer EPA		Sheet 3/3		
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
				11/05/2010:DRY	77.77	(0.50) 20.50	Possible weathered BEDROCK or BOULDERS			
							Complete at 20.50m			
Remarks								Scale (approx) 1:50	Logged By JC/HH	
								Figure No. 10-161.W0047EMW09		

Glover Site Investigations Ltd

Site
Kerdiffstown Landfill

Borehole Number
W0047EMW10

Boring Method Rotary Symmetrix	Casing Diameter 150mm cased to 20.50m	Ground Level (mOD) 99.17	Client	Job Number 10-161
	Location 291023.2 E 222348.6 N	Dates 11/05/2010	Engineer EPA	Sheet 1/3

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
1.00	D1					(2.30)	Brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse		
2.50	D2				96.87	2.30	Brown grey slightly silty slightly gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse		
4.00	D3								
5.50	D4								
7.00	D5					(7.70)			
8.50	D6								
					89.17	10.00			

Remarks Standpipe installed. Double security lockable cover fitted with security tags.	Scale (approx)	Logged By
	1:50	JC/HH
	Figure No. 10-161.W0047EMW10	

Glover Site Investigations Ltd						Site Kerdiffstown Landfill		Borehole Number W0047EMW10	
Boring Method Rotary Symmetrix		Casing Diameter 150mm cased to 20.50m		Ground Level (mOD) 99.17		Client EPA		Job Number 10-161	
		Location 291023.2 E 222348.6 N		Dates 11/05/2010		Engineer EPA		Sheet 2/3	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
10.00	D7					(1.20)	Brown grey slightly silty slightly gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to medium		
11.50	D8				87.97	11.20	Grey brown silty sandy subangular to subrounded fine to medium GRAVEL. Sand is fine to coarse		
13.00	D9					(3.40)			
14.50	D10				84.57	14.60	Grey brown silty gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to coarse		
16.00	D11					(3.00)			
17.50	D12				81.57	17.60	Brown silty sandy subangular to subrounded fine to medium GRAVEL. Sand is fine to coarse		
19.00	D13					(2.40)			
					79.17	20.00			
Remarks								Scale (approx) 1:50	Logged By JC/HH
								Figure No. 10-161.W0047EMW10	

Glover Site Investigations Ltd

Site
Kerdiffstown Landfill

Borehole Number
W0047EMW10

Boring Method Rotary Symmetrix	Casing Diameter 150mm cased to 20.50m	Ground Level (mOD) 99.17	Client	Job Number 10-161
	Location 291023.2 E 222348.6 N	Dates 11/05/2010	Engineer EPA	Sheet 3/3

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
20.50	D14			11/05/2010:DRY	78.67	(0.50) 20.50	Brown silty sandy subangular to subrounded fine to medium GRAVEL. Sand is fine to coarse		
							Complete at 20.50m		

Remarks	Scale (approx) 1:50	Logged By JC/HH
	Figure No. 10-161.W0047EMW10	

Glover Site Investigations Ltd

Site
Kerdiffstown Landfill

Borehole Number
W0047EMW10

Installation Type Gas and Water Monitoring	Dimensions Internal Diameter of Tube [A] = 50 mm Diameter of Filter Zone = 150 mm	Client EPA	Job Number 10-161
	Location 291023.2 E 222348.6 N		Ground Level (mOD) 99.17

Legend	Water	Instr (A)	Level (mOD)	Depth (m)	Description	Groundwater Strikes During Drilling														
						Date	Time	Depth Struck (m)	Casing Depth (m)	Inflow Rate	Readings				Depth Sealed (m)					
			98.82	0.35	Concrete Bentonite Seal															
			97.37 97.17	1.80 2.00	Fine Gravel Filter															
Groundwater Observations During Drilling																				
						Start of Shift					End of Shift									
						Date	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (mOD)				
						11/05/10							20.50			DRY				
Instrument Groundwater Observations																				
Inst. [A] Type :																				
					Slotted Standpipe	Instrument [A]				Remarks										
						Date	Time	Depth (m)	Level (mOD)											
			78.67	20.50																

Remarks
Two lockable flush covers fitted.
Geosock fitted.
Gas tap fitted.

Method and Equipment:
Rotary drilling 0.00-25.00m Symmetrix Drilling

Co-ords:
-
-
Ground Level:
-

Client:
Engineer: Ford Consulting
Dates: 08/06/2011

Sheet 1 of 1
Scale: 1:400
Driller: GT
Logger: BA

Depth (m)	Sample / Test	Casing Depth (m)	Water Depth (m)	Field Records	Level Depth (Thickness)	Stratum Description	Legend & Water Strikes	Backfill/ Installs
					(8.00)	Hardfill, Sawdust and Plastic (Driller's description)		
					8.00	SAND and GRAVEL (Driller's description)		
					(11.00)			
					19.00	Coarse SAND and GRAVEL (Driller's description)		
					(6.00)			
					25.00	End of Borehole at 25.00 m		
	Type							

Remarks:
Standpipe installed.

Water Strikes:
Struck (m) rising to (m) time (min)
No Groundwater Encountered

Last Revised:
28/06/2011

Core Barrel:
Flush type:

Casing:
to (m) dia. (mm)
25.00 200

Project No.
11-182

Project Name: Kerdiffstown Landfill, near Naas, Co. Kildare

Borehole No.
EMW11

Installation Type:
SPEMW11 - Standpipe to 22.00m (50mm dia)

Co-ords:
-
-

Client:

Engineer: Ford Consulting

Sheet 1 of 1

Scale: 1:150

Cover Type:
Upright cover fitted.

Ground Level:
-

Date of installation: 08/06/2011

Driller: GT

Logger: BA

Legend & Water Strikes	Backfill/Installs	Level (m)	Depth (m)	Description	Groundwater Strikes During Drilling																
					Date	Time	Strike Number	Depth Struck (m)	Rise Details	Further Details	Casing Depth (m)	Depth Sealed (m)									
		1.00	2.00	Concrete																	
				Bentonite					No Groundwater Encountered												
Arisings					Groundwater Observations During Drilling																
					Start of Shift					End of Shift											
					Date	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (m)	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level EMW11						
		9.50	11.50	Bentonite																	
Gravel filter					Groundwater Monitoring Results					Gas Monitoring Results											
					Install I.D.	Date	Time	Water Depth (m)	Water Level (m)	Install I.D.	Date	Time	Oxygen (%)	Carbon Dioxide (%)	Methane (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)	Atmospheric Pressure (mBar)	Gas Flow (l/hour)	PID - VOCs (ppm)	
		22.00	25.00	Bentonite																	

Remarks:
Last Revised:
28/06/2011


Method and Equipment:
Rotary drilling 0.00-20.50m Symmetrix Drilling

Co-ords:
-
-
Ground Level:
-

Client:
Engineer: Ford Consulting
Dates: 09/06/2011

Sheet 1 of 1
Scale: 1:400
Driller: GT
Logger: BA

Depth (m)	Sample / Test	Casing Depth (m)	Water Depth (m)	Field Records	Level Depth (Thickness)	Stratum Description	Legend & Water Strikes	Backfill/ Installs
					(7.50)	Hardcore, Plastic and wood (Driller's description)		
					7.50 (5.50)	Fine SAND and GRAVEL (Driller's description)		
					13.00 (7.50)	ROCK (Driller's description)		
				-09/06/2011 — dry	20.50	End of Borehole at 20.50 m		
	Type							

Remarks:
Standpipe installed.

Water Strikes:
Struck (m) 19.30
rising to (m) -
time (min) 0

Last Revised:
24/06/2011

Core Barrel:
Flush type:

Casing:
to (m) 15.00
dia. (mm) 200

Installation Type:
SPEMW12 - Standpipe to 20.00m (50mm dia)

Co-ords:
-
-

Client:

Sheet 1 of 1

Cover Type:
Upright cover fitted.

Ground Level:
-

Engineer: Ford Consulting

Scale: 1:150

Date of installation: 09/06/2011

Driller: GT

Logger: BA

Legend & Water Strikes	Backfill/Installs	Level (m)	Depth (m)	Description	Groundwater Strikes During Drilling										
					Date	Time	Strike Number	Depth Struck (m)	Rise Details	Further Details	Casing Depth (m)	Depth Sealed (m)			
		1.00	2.00	Concrete											
				Bentonite	09/06/11	0000	1	19.30	-	Water Strike	-	-			
Groundwater Observations During Drilling															
Arisings															
Start of Shift															
End of Shift															
Date	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (m)	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level EMW12					
09/06/11						1700	20.50	-	-	-					
		11.00	13.00	Bentonite											
				Gravel filter											
Groundwater Monitoring Results					Gas Monitoring Results										
Install I.D.	Date	Time	Water Depth (m)	Water Level (m)	Install I.D.	Date	Time	Oxygen (%)	Carbon Dioxide (%)	Methane (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)	Atmospheric Pressure (mBar)	Gas Flow (l/hour)	PID - VOCs (ppm)

Remarks:
Last Revised:
24/06/2011


Method and Equipment:
Rotary drilling 0.00-20.00m Symmetrix Drilling

Co-ords:
-
-
Ground Level:
-

Client:
Engineer: Ford Consulting
Dates: 10/06/2011

Sheet 1 of 1
Scale: 1:400
Driller: GT
Logger: BA

Depth (m)	Sample / Test	Casing Depth (m)	Water Depth (m)	Field Records	Level Depth (Thickness)	Stratum Description	Legend & Water Strikes	Backfill/ Installs
					(4.50)	Hardcore FILL (Driller's description)		
					4.50	Tree stumps and timber (Driller's description)		
					(11.00)			
					15.50	Coarse GRAVEL, fine SAND and grey SILT (Driller's description)		
					(4.50)			
					20.00	End of Borehole at 20.00 m		
	Type							

Remarks:
Standpipe installed.

Water Strikes:
Struck (m) 16.00
rising to (m) -
time (min) 0

Last Revised:
28/06/2011

Core Barrel:
Flush type:

Casing:
to (m) 20.00
dia. (mm) 200

Project No.
11-182

Project Name: Kerdiffstown Landfill, near Naas, Co. Kildare

Borehole No.
EMW13
Installation Type:
SPEMW13 - Standpipe to 20.00m (50mm dia)

Co-ords:
-
-
Ground Level:
-

Client:
Engineer: Ford Consulting
Date of installation: 10/06/2011

 Sheet 1 of 1
Scale: 1:150
Driller: GT
Logger: BA

Cover Type:
Upright cover fitted.

Legend & Water Strikes	Backfill/Installs	Level (m)	Depth (m)	Description	Groundwater Strikes During Drilling																
					Date	Time	Strike Number	Depth Struck (m)	Rise Details	Further Details	Casing Depth (m)	Depth Sealed (m)									
			1.00	Concrete																	
			2.00	Bentonite	10/06/11	0000	1	16.00	-		Water Strike	-	-								
					Groundwater Observations During Drilling																
				Arisings	Start of Shift					End of Shift											
					Date	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (m)	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level EMW13						
			13.50	Bentonite	Groundwater Monitoring Results				Gas Monitoring Results												
			15.50		Install I.D.	Date	Time	Water Depth (m)	Water Level (m)	Install I.D.	Date	Time	Oxygen (%)	Carbon Dioxide (%)	Methane (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)	Atmospheric Pressure (mBar)	Gas Flow (l/hour)	PID - VOCs (ppm)	
			20.00	Gravel filter																	

Remarks:
Last Revised:
28/06/2011

Project No.
11-182

Project Name: Kerdiffstown Landfill, near Naas, Co. Kildare

Borehole No.
EMW14

Method and Equipment:
Rotary drilling 0.00-24.00m Symmetrix Drilling

Co-ords:
-
-
Ground Level:
-

Client:
Engineer: Ford Consulting
Dates: 19/06/2011

Sheet 1 of 1
Scale: 1:400
Driller: GT
Logger: BA

Depth (m)	Sample / Test	Casing Depth (m)	Water Depth (m)	Field Records	Level Depth (Thickness)	Stratum Description	Legend & Water Strikes	Backfill/Installs
					(19.50)	Hardcore, waste, timber, tree stumps (Driller's description)		
				19/06/2011 — dry	19.50 (4.50) 24.00	Layers of black CLAY, grey sandy SILT and coarse GRAVEL (Driller's description)		
						End of Borehole at 24.00 m		
Type								

Remarks:
Standpipe installed.

Water Strikes:
Struck (m) rising to (m) time (min)
No Groundwater Encountered

Last Revised:
28/06/2011

Core Barrel:
Flush type:

Casing:
to (m) dia. (mm)
24.00 200

Project No.
11-182

Project Name: Kerdiffstown Landfill, near Naas, Co. Kildare

Borehole No.
EMW14
Installation Type:
SPEMW17 - Standpipe to 24.00m (50mm dia)

Co-ords:
-
-
Ground Level:
-

Client:
Engineer: Ford Consulting
Date of installation: 19/06/2011

 Sheet 1 of 1
Scale: 1:150
Driller: GT
Logger: BA

Cover Type:
Upright cover fitted.

Legend & Water Strikes	Backfill/Installs	Level (m)	Depth (m)	Description	Groundwater Strikes During Drilling																
					Date	Time	Strike Number	Depth Struck (m)	Rise Details	Further Details	Casing Depth (m)	Depth Sealed (m)									
		1.00		Concrete																	
		2.00		Bentonite					No Groundwater Encountered												
					Groundwater Observations During Drilling																
					Start of Shift					End of Shift											
					Date	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (m)	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level EMW14						
				Arisings	19/06/11						1700	24.00	-	-	-						
					Groundwater Monitoring Results					Gas Monitoring Results											
					Install I.D.	Date	Time	Water Depth (m)	Water Level (m)	Install I.D.	Date	Time	Oxygen (%)	Carbon Dioxide (%)	Methane (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)	Atmospheric Pressure (mB)	Gas Flow (l/hour)	PID - VOCs (ppm)	
		18.50		Bentonite																	
		20.50																			
				Gravel filter																	
		24.00																			

Remarks:
Last Revised:
28/06/2011

Project No.
11-182

Project Name: Kerdiffstown Landfill, near Naas, Co. Kildare

Borehole No.
EMW15

Method and Equipment:
Rotary drilling 0.00-18.00m Symmetrix Drilling

Co-ords:
-
-



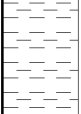

Ground Level:
-

Client:

Engineer: Ford Consulting

Dates: 15/06/2011

Sheet 1 of 1
Scale: 1:400
Driller: GT
Logger: BA

Depth (m)	Sample / Test	Casing Depth (m)	Water Depth (m)	Field Records	Level Depth (Thickness)	Stratum Description	Legend & Water Strikes	Backfill/ Installs
					(11.70)	Hardcore, Plastic and Timber (Driller's description)		
					11.70 (6.30)	Layer of grey CLAY and silty sandy coarse GRAVEL (Driller's description)		
				-15/06/2011 14.90m	18.00	End of Borehole at 18.00 m		
	Type							

Remarks:
Standpipe installed

Water Strikes:
Struck (m) rising to (m) time (min)
No Groundwater Encountered

Last Revised:
23/06/2011

Core Barrel:

Flush type:
Casing:
to (m) dia. (mm)
18.00 200

Project No.
11-182

Project Name: Kerdiffstown Landfill, near Naas, Co. Kildare

Borehole No.
EMW15

Installation Type:
SPEMW16 - Standpipe to 18.00m (50mm dia)

Co-ords:
-
-

Client:

Sheet 1 of 1

Engineer: Ford Consulting

Scale: 1:150

Cover Type:
Upright cover fitted.

Ground Level:
-

Date of installation: 15/06/2011

Driller: GT

Logger: BA

Legend & Water Strikes	Backfill/ Installs	Level (m)	Depth (m)	Description	Groundwater Strikes During Drilling																
					Date	Time	Strike Number	Depth Struck (m)	Rise Details	Further Details	Casing Depth (m)	Depth Sealed (m)									
			1.00	Concrete																	
			2.00	Bentonite					No Groundwater Encountered												
				Arisings	Groundwater Observations During Drilling																
					Start of Shift					End of Shift											
					Date	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (m)	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level EMW15						
					15/06/11						1700	18.00	18.00	14.90	-						
			11.00	Bentonite																	
			13.00	Gravel filter	Groundwater Monitoring Results					Gas Monitoring Results											
					Install I.D.	Date	Time	Water Depth (m)	Water Level (m)	Install I.D.	Date	Time	Oxygen (%)	Carbon Dioxide (%)	Methane (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)	Atmospheric Pressure (mB)	Gas Flow (l/hour)	PID - VOCs (ppm)	
			18.00																		

Remarks:
Last Revised:
23/06/2011


Method and Equipment:
Rotary drilling 0.00-17.60m Symmetrix Drilling

Co-ords:
-
-



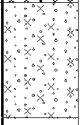

Ground Level:
-

Client:

Engineer: Ford Consulting

Dates: 14/06/2011

Sheet 1 of 1
Scale: 1:400
Driller: GT
Logger: BA

Depth (m)	Sample / Test	Casing Depth (m)	Water Depth (m)	Field Records	Level Depth (Thickness)	Stratum Description	Legend & Water Strikes	Backfill/ Installs
					(11.50)	Hardcore Fill, plastic and timber (Driller's description)		
					11.50 (6.10)	GRAVEL and grey silt and layers of black clay (Driller's description)		
				14/06/2011 dry	17.60	End of Borehole at 17.60 m		
	Type							

Remarks:
Standpipe installed

Water Strikes:
Struck rising to time
(m) (m) (min)
No Groundwater Encountered

Last Revised:
24/06/2011

Core Barrel:

Flush type:
Casing:
to (m) dia. (mm)
17.60 200

Project No.
11-182

Project Name: Kerdiffstown Landfill, near Naas, Co. Kildare

Borehole No.
EMW16

Installation Type:
SPEMW15 - Standpipe to 17.60m (50mm dia)

Co-ords:
-
-

Client:

Engineer: Ford Consulting

Sheet 1 of 1
Scale: 1:150

Cover Type:
Upright cover fitted.

Ground Level:
-

Date of installation: 14/06/2011

Driller: GT
Logger: BA

Legend & Water Strikes	Backfill/ Installs	Level (m)	Depth (m)	Description	Groundwater Strikes During Drilling																
					Date	Time	Strike Number	Depth Struck (m)	Rise Details	Further Details	Casing Depth (m)	Depth Sealed (m)									
			1.00	Concrete																	
			2.00	Bentonite					No Groundwater Encountered												
				Arisings	Groundwater Observations During Drilling																
					Start of Shift					End of Shift											
					Date	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (m)	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (m)	Water Level EMW16					
					14/06/11						1700	17.60	-	-	-	-					
			11.20	Bentonite																	
			13.20		Groundwater Monitoring Results					Gas Monitoring Results											
				Gravel filter	Install I.D.	Date	Time	Water Depth (m)	Water Level (m)	Install I.D.	Date	Time	Oxygen (%)	Carbon Dioxide (%)	Methane (%)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)	Atmospheric Pressure (mB)	Gas Flow (l/hour)	PID - VOCs (ppm)	
			17.60																		



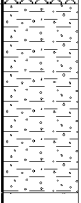
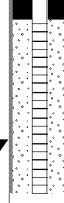
Remarks:
Last Revised:
24/06/2011

Method and Equipment:
Rotary drilling 0.00-21.00m Symmetrix Drilling

Co-ords:
-
-
Ground Level:
-

Client:
Engineer: Ford Consulting
Dates: 13/06/2011

Sheet 1 of 1
Scale: 1:400
Driller: GT
Logger: BA

Depth (m)	Sample / Test	Casing Depth (m)	Water Depth (m)	Field Records	Level Depth (Thickness)	Stratum Description	Legend & Water Strikes	Backfill/Installs
					(11.00)	Hardcore Fill, Gravel and Wood (Driller's description)		
					11.00 (10.00)	Grey sandy silty layers of CLAY and GRAVEL (Driller's description)		
				13/06/2011 19.00m	21.00	End of Borehole at 21.00 m		
	Type							

Remarks:
Standpipe installed.

Water Strikes:
Struck (m) 19.00
rising to (m) -
time (min) 0

Last Revised:
23/06/2011

Core Barrel:
Flush type:

Casing:
to (m) 21.00
dia. (mm) 200

Project No.
11-182

Project Name: Kerdiffstown Landfill, near Naas, Co. Kildare

Borehole No.
EMW17

Installation Type:
SPEMW14 - Standpipe to 21.00m (50mm dia)

Co-ords:
-
-

Client:

Sheet 1 of 1

Cover Type:
Upright cover fitted.

Ground Level:
-

Engineer: Ford Consulting

Scale: 1:150

Date of installation: 13/06/2011

Driller: GT

Logger: BA

Legend & Water Strikes	Backfill/Installs	Level (m)	Depth (m)	Description	Groundwater Strikes During Drilling																																																																																																																																																																																									
					Date	Time	Strike Number	Depth Struck (m)	Rise Details	Further Details	Casing Depth (m)	Depth Sealed (m)																																																																																																																																																																																		
		1.00	2.00	Concrete																																																																																																																																																																																										
				Bentonite	13/06/11	0000	1	19.00	-	Water Strike	-	-																																																																																																																																																																																		
Arisings					Groundwater Observations During Drilling																																																																																																																																																																																									
					Start of Shift					End of Shift																																																																																																																																																																																				
					Date	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level (m)	Time	Depth Hole (m)	Casing Depth (m)	Water Depth (m)	Water Level EMW17																																																																																																																																																																															
					13/06/11						1700	21.00	-	19.00	-																																																																																																																																																																															
		9.80	11.80	Bentonite																																																																																																																																																																																										
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Remarks:
Last Revised:
23/06/2011



GEOTECHNICAL BORING RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill				BOREHOLE NO. EMW18	
CO-ORDINATES 291,642.73 E 222,110.47 N		RIG TYPE Dando 2000		SHEET Sheet 1 of 1	
GROUND LEVEL (m AOD) 81.01		BOREHOLE DIAMETER (mm) 200		DATE COMMENCED 31/08/2012	
		BOREHOLE DEPTH (m) 6.20		DATE COMPLETED 31/08/2012	
CLIENT EPA		SPT HAMMER REF. NO.		BORED BY W.Cahill	
ENGINEER SKM		ENERGY RATIO (%)		PROCESSED BY I.Reeder	

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL Light brown, sandy gravelly CLAY with some angular sandstone cobbles		80.91	0.10						
1	Brown, sandy slightly gravelly CLAY with some subangular sandstone cobbles and occasional boulders		79.81	1.20						
3	Light brown, sandy fine to coarse GRAVEL		77.81	3.20						
4	Brown, fine to coarse SAND with occasional fine gravel		76.51	4.50						
5	Brown, sandy fine to coarse GRAVEL with occasional subangular cobbles		75.41	5.60						
6	Obstruction - possible big cobble End of Borehole at 6.20 m		74.81	6.20						

HARD STRATA BORING/CHISELLING				WATER STRIKE DETAILS					
From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
6.2	6.2	0.5	Chiselling	3.20	3.20	NO	1.70	20	Rapid
INSTALLATION DETAILS				GROUNDWATER PROGRESS					
Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments
31-08-12	6.20	3.00	6.00	50mm SP					

REMARKS Obstruction at 6.2m due to possible boulder.	Sample Legend D - Small Disturbed (tub) B - Bulk Disturbed LB - Large Bulk Disturbed Env - Environmental Sample (Jar + Vial + Tub) U - Undisturbed 100mm Diameter Sample P - Undisturbed Piston Sample W - Water Sample
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IGSL BH LOG CHISEL SEPARATED 16412.GPJ IGSL GDT 6/11/12



GEOTECHNICAL CORE LOG RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill	DRILLHOLE NO EMW19
CO-ORDINATES 291,547.74 E 222,164.60 N	SHEET Sheet 1 of 2
GROUND LEVEL (mOD) 80.45	DATE DRILLED 31/08/2012 DATE LOGGED 06/09/2012
CLIENT ENGINEER SKM	RIG TYPE Casagrande FLUSH Water INCLINATION (deg) -90 CORE DIAMETER (mm)
	DRILLED BY IGSL LOGGED BY D.O'Shea

Downhole Depth (m)	Core Run Depth (m)	T.C.R.%	S.C.R.%	R.Q.D.%	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)
0					0 250 500			SYMMETRIX DRILLING: No recovery, observed by driller as returns of clay				
1												
2								SYMMETRIX DRILLING: No recovery, observed by driller as returns of gravelly clay	2.00	78.45		
3								SYMMETRIX DRILLING: No recovery, observed by driller as returns of sandy gravel	3.00	77.45		
4								SYMMETRIX DRILLING: No recovery, observed by driller as returns of sand	3.90	76.55		
5								SYMMETRIX DRILLING: No recovery, observed by driller as returns of blowing sand	4.50	75.95		
6												
7												
8								SYMMETRIX DRILLING: No recovery, observed by driller as returns of gravelly clay	8.00	72.45		
9								SYMMETRIX DRILLING: No recovery, observed by driller as returns of boulder	8.70	71.75		
								SYMMETRIX DRILLING: No recovery, observed by driller as returns of sandy gravel	9.30	71.15		
									10.00	70.45		

REMARKS Hole Cased 0.00-10.00m. Driller standing 2.5hrs waiting for new location.					WATER STRIKE DETAILS					
					Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
					2.00					Seepage Slow
					3.20					
					GROUNDWATER DETAILS					
INSTALLATION DETAILS					Date	Hole Depth	Casing Depth	Depth to Water	Comments	
Date	Tip Depth	RZ Top	RZ Base	Type						
06-09-12	15.40	11.20	15.40	50mm SP						

IGSL RC Fl 10M 16412 RC.GPJ IGSL.GDT 6/11/12



GEOTECHNICAL CORE LOG RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill		DRILLHOLE NO EMW19
CO-ORDINATES 291,547.74 E 222,164.60 N		SHEET Sheet 2 of 2
GROUND LEVEL (mOD) 80.45	RIG TYPE Casagrande	DATE DRILLED 31/08/2012
	FLUSH Water	DATE LOGGED 06/09/2012
CLIENT ENGINEER SKM	INCLINATION (deg) -90	DRILLED BY IGSL
	CORE DIAMETER (mm)	LOGGED BY D.O'Shea

Downhole Depth (m)	Core Run Depth (m)	T.C.R.%	S.C.R.%	R.Q.D.%	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)
10					0 250 500			SYMMETRIX DRILLING: No recovery, observed by driller as returns of rock				
11												
12												
13												
14												
15									15.40	65.05		
16								End of Borehole at 15.40 m				
17												
18												
19												

REMARKS Hole Cased 0.00-10.00m. Driller standing 2.5hrs waiting for new location.					WATER STRIKE DETAILS					
					Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
INSTALLATION DETAILS					GROUNDWATER DETAILS					
					Date	Hole Depth	Casing Depth	Depth to Water	Comments	
Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments	
06-09-12	15.40	11.20	15.40	50mm SP	06-09-12	15.40	10.00	2.00	Water level recorded 10mins after end of drilling	

IGSL RC Fl 10M 16412 RC.GPJ IGSL.GDT 6/11/12



GEOTECHNICAL BORING RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill				BOREHOLE NO. EMW20	
CO-ORDINATES 291,529.06 E 222,282.61 N		RIG TYPE Dando 2000		SHEET Sheet 1 of 1	
GROUND LEVEL (m AOD) 80.22		BOREHOLE DIAMETER (mm) 200		DATE COMMENCED 04/09/2012	
		BOREHOLE DEPTH (m) 6.10		DATE COMPLETED 04/09/2012	
CLIENT EPA		SPT HAMMER REF. NO.		BORED BY W.Cahill	
ENGINEER SKM		ENERGY RATIO (%)		PROCESSED BY I.Reeder	

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL		79.52	0.70						
1	Dark brown, sandy CLAY with some fine to coarse gravel				AN3732	B	1.00-1.00			
2	Brown, slightly sandy silty CLAY with some fine to coarse gravel		78.52	1.70						
3	Brown, sandy fine to coarse subrounded GRAVEL with occasional subrounded fine cobbles		77.82	2.40						
4					AN3734	B	3.00-3.00			
5					AN3735	B	4.00-4.00			
6					AN3736	B	5.00-5.00			
6	Obstruction - possible big cobble End of Borehole at 6.10 m		74.12	6.10	AN3737	B	6.00-6.00			

HARD STRATA BORING/CHISELLING				WATER STRIKE DETAILS					
From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
6.1	6.1	0.25	Chiselling	4.20	4.20	NO	NO	20	Slow
INSTALLATION DETAILS				GROUNDWATER PROGRESS					
Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments
04-09-12	6.10	4.10	6.10	50mm SP					

REMARKS Obstruction at 6.1m due to possible boulder; 2.5 hrs removing spoil and made reinstatement at EMW19,20,21 locations.

Sample Legend
 D - Small Disturbed (tub)
 B - Bulk Disturbed
 LB - Large Bulk Disturbed
 Env - Environmental Sample (Jar + Vial + Tub)
 U - Undisturbed 100mm Diameter Sample
 P - Undisturbed Piston Sample
 W - Water Sample

IGSL BH LOG CHISEL SEPARATED 16412.GPJ IGSL.GDT 6/11/12



GEOTECHNICAL BORING RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill				BOREHOLE NO. EMW21	
CO-ORDINATES 291,411.16 E 222,509.26 N		RIG TYPE Dando 2000		SHEET Sheet 1 of 1	
GROUND LEVEL (m AOD) 82.06		BOREHOLE DIAMETER (mm) 200		DATE COMMENCED 03/09/2012	
		BOREHOLE DEPTH (m) 6.70		DATE COMPLETED 03/08/2012	
CLIENT EPA		SPT HAMMER REF. NO.		BORED BY W.Cahill	
ENGINEER SKM		ENERGY RATIO (%)		PROCESSED BY I.Reeder	

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL		81.86	0.20						
1	MADE GROUND (comprised of dark brown sandy gravelly clay, concrete pieces, red brick pieces, boulders)									
2	MADE GROUND (comprised of dark brown silty sandy clay with gravel and cobbles, boulders, red brick)		80.76	1.30						
3	Light brown, sandy silty slightly gravelly CLAY with some subrounded to subangular cobbles		79.66	2.40						
4					AN3729	B	4.00-4.00			
5	Brown, fine to coarse subrounded to rounded GRAVEL with some subrounded cobbles		77.16	4.90	AN3730	B	5.00-5.00			
6					AN3731	B	6.00-6.00			
7	Obstruction - possible big cobble End of Borehole at 6.70 m		75.36	6.70						
8										
9										

HARD STRATA BORING/CHISELLING				WATER STRIKE DETAILS					
From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
				5.00	5.00	NO	4.00	20	Moderate
INSTALLATION DETAILS				GROUNDWATER PROGRESS					
Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments
03-09-12	6.70	5.40	6.40	50mm SP					

REMARKS Obstruction at 6.7m - instructed to stop drilling	Sample Legend D - Small Disturbed (tub) B - Bulk Disturbed LB - Large Bulk Disturbed Env - Environmental Sample (Jar + Vial + Tub) U - Undisturbed 100mm Diameter Sample P - Undisturbed Piston Sample W - Water Sample
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IGSL BH LOG CHISEL SEPARATED 16412.GPJ IGSL.GDT 6/11/12



GEOTECHNICAL CORE LOG RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill		DRILLHOLE NO EMW22
CO-ORDINATES 291,194.41 E 222,563.12 N		SHEET Sheet 1 of 3
GROUND LEVEL (mOD) 87.89	RIG TYPE Casagrande	DATE DRILLED 07/09/2012
	FLUSH Water	DATE LOGGED 11/09/2012
CLIENT ENGINEER SKM	INCLINATION (deg) -90	DRILLED BY IGSL
	CORE DIAMETER (mm)	LOGGED BY D.O'Shea

Downhole Depth (m)	Core Run Depth (m)	T.C.R.%	S.C.R.%	R.Q.D.%	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)
0					0 250 500			Hole opened by Shell & Auger				
1												
2												
3												
4												
5												
6												
7												
8									8.30	79.59		
9								SYMMETRIX DRILLING: No recovery, observed by driller as returns of gravel				
									10.00	77.89		

REMARKS Hole Cased 0.00-24.60m. Driller 40mins pulling casing, Driller 1hr fitting install, driller 35mins moving rig & setting up on new location.					WATER STRIKE DETAILS				
					Water Strike	Casing Depth	Sealed At	Rise To	Time (min)
INSTALLATION DETAILS					GROUNDWATER DETAILS				
					Date	Hole Depth	Casing Depth	Depth to Water	Comments
11-09-12	24.60	20.40	24.60	50mm SP					

IGSL RC Fl 10M 16412 RC.GPJ IGSL.GDT 6/11/12



GEOTECHNICAL CORE LOG RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill		DRILLHOLE NO EMW22
CO-ORDINATES 291,194.41 E 222,563.12 N		SHEET Sheet 3 of 3
GROUND LEVEL (mOD) 87.89	RIG TYPE Casagrande	DATE DRILLED 07/09/2012
	FLUSH Water	DATE LOGGED 11/09/2012
CLIENT ENGINEER SKM	INCLINATION (deg) -90	DRILLED BY IGSL
	CORE DIAMETER (mm)	LOGGED BY D.O'Shea

Downhole Depth (m)	Core Run Depth (m)	T.C.R.%	S.C.R.%	R.Q.D.%	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)
20					0 250 500			SYMMETRIX DRILLING: No recovery, observed by driller as returns of rock (<i>continued</i>)				
21												
22												
23								SYMMETRIX DRILLING: No recovery, observed by driller as returns of clay band within rock	22.50	65.39		
24								SYMMETRIX DRILLING: No recovery, observed by driller as returns of rock	22.70	65.19		
25								End of Borehole at 24.60 m	24.60	63.29		
26												
27												
28												
29												

REMARKS Hole Cased 0.00-24.60m. Driller 40mins pulling casing, Driller 1hr fitting install, driller 35mins moving rig & setting up on new location.					WATER STRIKE DETAILS					
					Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
INSTALLATION DETAILS					GROUNDWATER DETAILS					
					Date	Hole Depth	Casing Depth	Depth to Water	Comments	
Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments	
11-09-12	24.60	20.40	24.60	50mm SP	11-09-12	24.60	24.60	9.00	Water level recorded 10mins after end of drilling	

IGSL RC Fl 10M 16412 RC.GPJ IGSL.GDT 6/11/12



GEOTECHNICAL CORE LOG RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill		DRILLHOLE NO EMW23
CO-ORDINATES 291,194.12 E 222,559.00 N		SHEET Sheet 1 of 2
GROUND LEVEL (mOD) 88.21	RIG TYPE Casagrande	DATE DRILLED 12/09/2012
	FLUSH Water	DATE LOGGED 12/09/2012
CLIENT ENGINEER SKM	INCLINATION (deg) -90	DRILLED BY IGSL
	CORE DIAMETER (mm)	LOGGED BY D.O'Shea

Downhole Depth (m)	Core Run Depth (m)	T.C.R.%	S.C.R.%	R.Q.D.%	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)
0					0 250 500		[Symbol]	SYMMETRIX DRILLING: No recovery, observed by driller as returns of clay			[Symbol]	
1							[Symbol]				[Symbol]	
2							[Symbol]	SYMMETRIX DRILLING: No recovery, observed by driller as returns of sandy gravel	1.80	86.41	[Symbol]	
3							[Symbol]				[Symbol]	
4							[Symbol]				[Symbol]	
5							[Symbol]				[Symbol]	
6							[Symbol]				[Symbol]	
7							[Symbol]				[Symbol]	
8							[Symbol]				[Symbol]	
9							[Symbol]				[Symbol]	

REMARKS Hole Cased 0.00-14.80m. Driller 1hrs pulling casing.					WATER STRIKE DETAILS					
					Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
					10.00					Slow
INSTALLATION DETAILS					GROUNDWATER DETAILS					
					Date	Hole Depth	Casing Depth	Depth to Water	Comments	
Date	Tip Depth	RZ Top	RZ Base	Type						
12-09-12	14.80	10.80	14.80	50mm SP						

IGSL RC Fl 10M 16412 RC.GPJ IGSL.GDT 6/11/12



GEOTECHNICAL CORE LOG RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill		DRILLHOLE NO EMW24
CO-ORDINATES 290,936.59 E 222,546.13 N		SHEET Sheet 1 of 3
GROUND LEVEL (mOD) 92.94	RIG TYPE Knebel	DATE DRILLED 24/09/2012
	FLUSH Air/Mist	DATE LOGGED 25/09/2012
CLIENT ENGINEER SKM	INCLINATION (deg) -90	DRILLED BY Petersen
	CORE DIAMETER (mm)	LOGGED BY D.O'Shea

Downhole Depth (m)	Core Run Depth (m)	T.C.R.%	S.C.R.%	R.Q.D.%	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)
0					0 250 500			SYMMETRIX DRILLING: No recovery, observed by driller as returns of madeground consisting of topsoil	0.30	92.64		
								SYMMETRIX DRILLING: No recovery, observed by driller as returns of madeground consisting of sandy gravel	0.50	92.44		
1								SYMMETRIX DRILLING: No recovery, observed by driller as returns of brown sandy gravelly clay with occasional cobbles				
2												
3								SYMMETRIX DRILLING: No recovery, observed by driller as returns of brown sandy gravel	2.80	90.14		
4												
5												
6												
7												
8												
9												

REMARKS Hole Cased 0.00-17.00m.					WATER STRIKE DETAILS					
					Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
										No water strike recorded
					GROUNDWATER DETAILS					
INSTALLATION DETAILS					Date	Hole Depth	Casing Depth	Depth to Water	Comments	
Date	Tip Depth	RZ Top	RZ Base	Type						
25-09-12	26.00	19.00	26.00	50mm SP						

IGSL RC Fl 10M 16412 RC.GPJ IGSL.GDT 6/11/12



GEOTECHNICAL CORE LOG RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill	DRILLHOLE NO EMW24
CO-ORDINATES 290,936.59 E 222,546.13 N	SHEET Sheet 2 of 3
GROUND LEVEL (mOD) 92.94	DATE DRILLED 24/09/2012 DATE LOGGED 25/09/2012
CLIENT ENGINEER SKM	RIG TYPE Knebel FLUSH Air/Mist INCLINATION (deg) -90 CORE DIAMETER (mm)
	DRILLED BY Petersen LOGGED BY D.O'Shea

Downhole Depth (m)	Core Run Depth (m)	T.C.R.%	S.C.R.%	R.Q.D.%	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)
10					0 250 500			SYMMETRIX DRILLING: No recovery, observed by driller as returns of brown sandy gravelly clay with occasional cobbles	10.20	82.74		
11												
12												
13												
14												
15												
16												
16.60								SYMMETRIX DRILLING: No recovery, observed by driller as returns of grey weathered rock	16.60	76.34		
17												
18												
19								SYMMETRIX DRILLING: No recovery, observed by driller as returns of grey rock	19.50	73.44		

REMARKS Hole Cased 0.00-17.00m.					WATER STRIKE DETAILS					
					Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
										No water strike recorded
INSTALLATION DETAILS					GROUNDWATER DETAILS					
					Date	Hole Depth	Casing Depth	Depth to Water	Comments	
25-09-12	26.00	19.00	26.00	50mm SP						

IGSL RC F1 10M 16412 RC.GPJ IGSL_GDT 6/11/12



GEOTECHNICAL CORE LOG RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill		DRILLHOLE NO EMW24
CO-ORDINATES 290,936.59 E 222,546.13 N		SHEET Sheet 3 of 3
GROUND LEVEL (mOD) 92.94	RIG TYPE Knebel	DATE DRILLED 24/09/2012
	FLUSH Air/Mist	DATE LOGGED 25/09/2012
CLIENT ENGINEER SKM	INCLINATION (deg) -90	DRILLED BY Petersen
	CORE DIAMETER (mm)	LOGGED BY D.O'Shea

Downhole Depth (m)	Core Run Depth (m)	T.C.R.%	S.C.R.%	R.Q.D.%	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)
20					0 250 500			SYMMETRIX DRILLING: No recovery, observed by driller as returns of grey rock (<i>continued</i>)			0 100 200 300 400 500 600 700 800 900 1000	
21												
22												
23												
24												
25												
26								End of Borehole at 26.00 m	26.00	66.94		
27												
28												
29												

REMARKS Hole Cased 0.00-17.00m.					WATER STRIKE DETAILS					
					Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
										No water strike recorded
INSTALLATION DETAILS					GROUNDWATER DETAILS					
					Date	Hole Depth	Casing Depth	Depth to Water	Comments	
Date	Tip Depth	RZ Top	RZ Base	Type						
25-09-12	26.00	19.00	26.00	50mm SP						

IGSL RC FI 10M 16412 RC.GPJ IGSL.GDT 6/11/12



GEOTECHNICAL CORE LOG RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill		DRILLHOLE NO EMW25
CO-ORDINATES		SHEET Sheet 1 of 1
GROUND LEVEL (mOD)		DATE DRILLED 26/09/2012
CLIENT ENGINEER SKM		DATE LOGGED 27/09/2012
RIG TYPE Knebel		DRILLED BY Petersen
FLUSH Air/Mist		LOGGED BY D.O'Shea
INCLINATION (deg) -90		
CORE DIAMETER (mm)		

Downhole Depth (m)	Core Run Depth (m)	T.C.R.%	S.C.R.%	R.Q.D.%	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)
0									0.00			
1												
2												
3												
4												
5												
6												
7												
8												
9												

REMARKS Driller standing 5hrs waiting for instruction on 26/9/12. Driller standing 2.5hrs reviewing ground conditions on 27/9/12. EMW25 eventually cancelled & driller de-mobilised from site.					WATER STRIKE DETAILS					
					Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
										No water strike recorded
INSTALLATION DETAILS					GROUNDWATER DETAILS					
					Date	Hole Depth	Casing Depth	Depth to Water	Comments	
Date	Tip Depth	RZ Top	RZ Base	Type						

IGSL RC FI 10M 16412 RC.GPJ IGSL_GDT 6/11/12



GEOTECHNICAL CORE LOG RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill		DRILLHOLE NO EMW27D
CO-ORDINATES 291,086.43 E 221,781.09 N		SHEET Sheet 1 of 2
GROUND LEVEL (mOD) 81.91	RIG TYPE Casagrande	DATE DRILLED 25/09/2012
	FLUSH Water	DATE LOGGED 25/09/2012
CLIENT ENGINEER SKM	INCLINATION (deg) -90	DRILLED BY IGSL
	CORE DIAMETER (mm)	LOGGED BY D.O'Shea

Downhole Depth (m)	Core Run Depth (m)	T.C.R.%	S.C.R.%	R.Q.D.%	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)
0					0 250 500			SYMMETRIX DRILLING: No recovery, observed by driller as returns of sandy gravel				
1												
2												
3												
4									4.50	77.41		
5								SYMMETRIX DRILLING: No recovery, observed by driller as returns of boulders	5.20	76.71		
6								SYMMETRIX DRILLING: No recovery, observed by driller as returns of sandy gravel				
7												
8								SYMMETRIX DRILLING: No recovery, observed by driller as returns of sandy gravelly clay	8.30	73.61		
9								SYMMETRIX DRILLING: No recovery, observed by driller as returns of boulders	9.40	72.51		

REMARKS Hole Cased 0.00-4.50m. Driller standing 2.5hrs waiting for new location.					WATER STRIKE DETAILS					
					Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
					2.00					Slow
INSTALLATION DETAILS					GROUNDWATER DETAILS					
					Date	Hole Depth	Casing Depth	Depth to Water	Comments	
Date	Tip Depth	RZ Top	RZ Base	Type						
25-06-12	15.30	11.00	15.30	50mm SP						

IGSL RC Fl 10M 16412 RC.GPJ IGSL.GDT 6/11/12



GEOTECHNICAL CORE LOG RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill		DRILLHOLE NO EMW27D
CO-ORDINATES 291,086.43 E 221,781.09 N		SHEET Sheet 2 of 2
GROUND LEVEL (mOD) 81.91	RIG TYPE Casagrande	DATE DRILLED 25/09/2012
	FLUSH Water	DATE LOGGED 25/09/2012
CLIENT ENGINEER SKM	INCLINATION (deg) -90	DRILLED BY IGSL
	CORE DIAMETER (mm)	LOGGED BY D.O'Shea

Downhole Depth (m)	Core Run Depth (m)	T.C.R.%	S.C.R.%	R.Q.D.%	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)
10					0 250 500			SYMMETRIX DRILLING: No recovery, observed by driller as returns of sandy gravelly clay	10.20	71.71		
11												
12												
13												
14												
15								End of Borehole at 15.30 m	15.30	66.61		
16												
17												
18												
19												

REMARKS Hole Cased 0.00-4.50m. Driller standing 2.5hrs waiting for new location.					WATER STRIKE DETAILS					
					Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
INSTALLATION DETAILS					GROUNDWATER DETAILS					
					Date	Hole Depth	Casing Depth	Depth to Water	Comments	
Date	Tip Depth	RZ Top	RZ Base	Type	25-09-12	15.30	4.50	0.50	Water level recorded 5mins after end of drilling, rising.	
25-06-12	15.30	11.00	15.30	50mm SP						

IGSL RC Fl 10M 16412 RC.GPJ IGSL.GDT 6/11/12



GEOTECHNICAL CORE LOG RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill		DRILLHOLE NO EMW28
CO-ORDINATES 291,086.78 E 221,779.56 N		SHEET Sheet 1 of 1
GROUND LEVEL (mOD) 82.02	RIG TYPE Casagrande	DATE DRILLED 26/09/2012
	FLUSH Water	DATE LOGGED 26/09/2012
CLIENT ENGINEER SKM	INCLINATION (deg) -90	DRILLED BY IGSL
	CORE DIAMETER (mm)	LOGGED BY D.O'Shea

Downhole Depth (m)	Core Run Depth (m)	T.C.R.%	S.C.R.%	R.Q.D.%	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)
0					0 250 500			SYMMETRIX DRILLING: No recovery, observed by driller as returns of sandy gravel				
1												
2												
3												
4									4.50	77.52		
5								SYMMETRIX DRILLING: No recovery, observed by driller as returns of boulders	5.10	76.92		
6								SYMMETRIX DRILLING: No recovery, observed by driller as returns of sandy gravel				
7												
8								End of Borehole at 8.00 m	8.00	74.02		
9												

REMARKS Hole Cased 0.00-8.00m.					WATER STRIKE DETAILS					
					Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
					2.00					Slow
INSTALLATION DETAILS					GROUNDWATER DETAILS					
					Date	Hole Depth	Casing Depth	Depth to Water	Comments	
Date	Tip Depth	RZ Top	RZ Base	Type	26-09-12	8.00	8.00	0.50	Water level recorded 5mins after end of drilling, rising.	
26-09-12	8.00	3.00	8.00	50mm SP						

IGSL RC F1 10M 16412 RC.GPJ IGSL.GDT 6/11/12



GEOTECHNICAL CORE LOG RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill		DRILLHOLE NO EMW29
CO-ORDINATES 291,515.01 E 221,705.57 N		SHEET Sheet 1 of 1
GROUND LEVEL (mOD) 81.84	RIG TYPE Knebel	DATE DRILLED 26/09/2012
	FLUSH Air/Mist	DATE LOGGED 26/09/2012
CLIENT ENGINEER SKM	INCLINATION (deg) -90	DRILLED BY Petersen
	CORE DIAMETER (mm)	LOGGED BY D.O'Shea

Downhole Depth (m)	Core Run Depth (m)	T.C.R.%	S.C.R.%	R.Q.D.%	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)
0					0 250 500			SYMMETRIX DRILLING: No recovery, observed by driller as returns of brown topsoil	0.40	81.44		
								SYMMETRIX DRILLING: No recovery, observed by driller as returns of soft grey silty clay	0.80	81.04		
1								SYMMETRIX DRILLING: No recovery, observed by driller as returns of brown sandy gravel				
2												
3												
4									4.50	77.34		
5								SYMMETRIX DRILLING: No recovery, observed by driller as returns of grey sandy gravelly clay with occasional cobbles				
6												
7									7.60	74.24		
8								SYMMETRIX DRILLING: No recovery, observed by driller as returns of brown sandy gravelly clay with occasional cobbles	8.00	73.84		
								End of Borehole at 8.00 m				
9												

REMARKS Hole Cased 0.00-8.00m.					WATER STRIKE DETAILS				
					Water Strike	Casing Depth	Sealed At	Rise To	Time (min)
					No water strike recorded				
INSTALLATION DETAILS					GROUNDWATER DETAILS				
					Date	Hole Depth	Casing Depth	Depth to Water	Comments
Date	Tip Depth	RZ Top	RZ Base	Type	26-09-12	8.00	8.00	0.00	Water level recorded 5mins after end of drilling, rising.
26-09-12	8.00	1.50	8.00	50mm SP					

IGSL RC Fl 10M 16412 RC.GPJ IGSL_GDT 6/11/12



GEOTECHNICAL CORE LOG RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill		DRILLHOLE NO EMW30
CO-ORDINATES 291,748.62 E 221,822.74 N		SHEET Sheet 1 of 2
GROUND LEVEL (mOD) 90.95	RIG TYPE Knebel	DATE DRILLED 25/09/2012
	FLUSH Air/Mist	DATE LOGGED 25/09/2012
CLIENT ENGINEER SKM	INCLINATION (deg) -90	DRILLED BY Petersen
	CORE DIAMETER (mm)	LOGGED BY D.O'Shea

Downhole Depth (m)	Core Run Depth (m)	T.C.R.%	S.C.R.%	R.Q.D.%	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)
0					0 250 500			SYMMETRIX DRILLING: No recovery, observed by driller as returns of brown topsoil SYMMETRIX DRILLING: No recovery, observed by driller as returns of brown sandy gravelly clay with occasional cobbles	0.30	90.65		
1									1.80	89.15		
2								SYMMETRIX DRILLING: No recovery, observed by driller as returns of brown gravelly sand				
3												
4												
5												
6												
7												
8												
9									10.00	80.95		

REMARKS Hole Cased 0.00-14.00m.					WATER STRIKE DETAILS				
					Water Strike	Casing Depth	Sealed At	Rise To	Time (min)
INSTALLATION DETAILS					GROUNDWATER DETAILS				
					Date	Hole Depth	Casing Depth	Depth to Water	Comments
25-09-12	13.20	9.00	13.20	50mm SP					

IGSL RC Fl 10M 16412 RC.GPJ IGSL_GDT 6/11/12



GEOTECHNICAL CORE LOG RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill	DRILLHOLE NO EMW30
CO-ORDINATES 291,748.62 E 221,822.74 N	SHEET Sheet 2 of 2
GROUND LEVEL (mOD) 90.95	DATE DRILLED 25/09/2012 DATE LOGGED 25/09/2012
CLIENT ENGINEER SKM	RIG TYPE Knebel FLUSH Air/Mist INCLINATION (deg) -90 CORE DIAMETER (mm)
	DRILLED BY Petersen LOGGED BY D.O'Shea

Downhole Depth (m)	Core Run Depth (m)	T.C.R.%	S.C.R.%	R.Q.D.%	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)
10					0 250 500		○	SYMMETRIX DRILLING: No recovery, observed by driller as returns of brown sandy gravel			○	
11							○				○	
12							○				○	
13							○	13.20m - Blowing sand & gravel back into hole			○	
14							○	End of Borehole at 14.00 m	14.00	76.95	○	
15							○				○	
16							○				○	
17							○				○	
18							○				○	
19							○				○	

REMARKS Hole Cased 0.00-14.00m.					WATER STRIKE DETAILS					
					Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
					10.50					Slow
INSTALLATION DETAILS					GROUNDWATER DETAILS					
					Date	Hole Depth	Casing Depth	Depth to Water	Comments	
Date	Tip Depth	RZ Top	RZ Base	Type						
25-09-12	13.20	9.00	13.20	50mm SP						

IGSL RC FI 10M 16412 RC.GPJ IGSL.GDT 6/11/12



GEOTECHNICAL BORING RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill				BOREHOLE NO. EMW31	
CO-ORDINATES 291,545.08 E 222,361.90 N		RIG TYPE Dando 150		SHEET Sheet 1 of 1	
GROUND LEVEL (m AOD) 80.00		BOREHOLE DIAMETER (mm) 200		DATE COMMENCED 10/09/2012	
		BOREHOLE DEPTH (m) 5.90		DATE COMPLETED 11/09/2012	
CLIENT EPA		SPT HAMMER REF. NO.		BORED BY P.Thomas	
ENGINEER SKM		ENERGY RATIO (%)		PROCESSED BY I.Reeder	

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL Grey/brown, silty CLAY with some organic pieces		79.80	0.20						
1	Grey silty fine to coarse GRAVEL		78.90	1.10						
2	Grey, coarse GRAVEL with frequent bands of fine to medium blowing gravel and occasional cobbles and boulders		77.70	2.30						
6	End of Borehole at 5.90 m		74.10	5.90						

HARD STRATA BORING/CHISELLING				WATER STRIKE DETAILS					
From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
2	2.2	0.5	Blowing gravel	2.30	2.30	NO	NO	20	Slow
5.8	5.9	0.5	Chiselling	2.70	2.70	NO	0.70	20	Rapid

INSTALLATION DETAILS					GROUNDWATER PROGRESS				
Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments
11-09-17	5.90	3.00	5.90	50mm SP	11-09-12	5.90	5.90	0.70	Depth to water at end of the day

<p>REMARKS Arrived on site at 12.30pm. Attempted to move rig to 1st location, but jeep and rig sank, waiting for mini digger and balloon tyres, set up rig at 4.45pm. 1hr hand dug inspection pit for services to 1.2m.</p>	<p>Sample Legend</p> <p>D - Small Disturbed (tub) B - Bulk Disturbed LB - Large Bulk Disturbed Env - Environmental Sample (Jar + Vial + Tub)</p> <p>U - Undisturbed 100mm Diameter Sample P - Undisturbed Piston Sample W - Water Sample</p>
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IGSL BH LOG CHISEL SEPARATED 16412.GPJ IGSL.GDT 6/11/12



GEOTECHNICAL CORE LOG RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill		DRILLHOLE NO EMW32
CO-ORDINATES 291,695.02 E 222,476.19 N		SHEET Sheet 1 of 2
GROUND LEVEL (mOD) 81.08	RIG TYPE Knebel	DATE DRILLED 21/09/2012
CLIENT ENGINEER SKM	FLUSH Air/Mist	DATE LOGGED 21/09/2012
	INCLINATION (deg) -90	DRILLED BY Petersen
	CORE DIAMETER (mm)	LOGGED BY D.O'Shea

Downhole Depth (m)	Core Run Depth (m)	T.C.R.%	S.C.R.%	R.Q.D.%	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)
0					0 250 500			Hole opened by Shell & Auger				
5								SYMMETRIX DRILLING: No recovery, observed by driller as returns of stiff grey sandy gravelly clay with occasional cobbles	5.00	76.08		
8								SYMMETRIX DRILLING: No recovery, observed by driller as returns of brown sandy gravelly clay with occasional cobbles with some sand and gravel layers	8.20	72.88		

REMARKS Hole Cased 0.00-11.00m.					WATER STRIKE DETAILS				
					Water Strike	Casing Depth	Sealed At	Rise To	Time (min)
					No water strike recorded				
INSTALLATION DETAILS					GROUNDWATER DETAILS				
					Date	Hole Depth	Casing Depth	Depth to Water	Comments
21-09-12	11.00	5.50	11.00	50mm SP					

IGSL RC Fl 10M 16412 RC.GPJ IGSL.GDT 6/11/12



GEOTECHNICAL CORE LOG RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill		DRILLHOLE NO EMW32
CO-ORDINATES 291,695.02 E 222,476.19 N		SHEET Sheet 2 of 2
GROUND LEVEL (mOD) 81.08	RIG TYPE Knebel	DATE DRILLED 21/09/2012
	FLUSH Air/Mist	DATE LOGGED 21/09/2012
CLIENT ENGINEER SKM	INCLINATION (deg) -90	DRILLED BY Petersen
	CORE DIAMETER (mm)	LOGGED BY D.O'Shea

Downhole Depth (m)	Core Run Depth (m)	T.C.R.%	S.C.R.%	R.Q.D.%	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)
10					0 250 500			SYMMETRIX DRILLING: No recovery, observed by driller as returns of brown sandy gravelly clay with occasional cobbles with some sand and gravel layers (<i>continued</i>)				
11								End of Borehole at 11.00 m	11.00	70.08		
12												
13												
14												
15												
16												
17												
18												
19												

REMARKS Hole Cased 0.00-11.00m.					WATER STRIKE DETAILS				
					Water Strike	Casing Depth	Sealed At	Rise To	Time (min)
					No water strike recorded				
INSTALLATION DETAILS					GROUNDWATER DETAILS				
					Date	Hole Depth	Casing Depth	Depth to Water	Comments
Date	Tip Depth	RZ Top	RZ Base	Type	21-09-12	11.00	11.00	9.40	Water level recorded 5mins after end of drilling, rising.
21-09-12	11.00	5.50	11.00	50mm SP					

IGSL RC FI 10M 16412 RC.GPJ IGSL.GDT 6/11/12



GEOTECHNICAL BORING RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill				BOREHOLE NO. EMW33	
CO-ORDINATES 291,492.33 E 222,494.09 N		RIG TYPE Dando 150		SHEET Sheet 1 of 1	
GROUND LEVEL (m AOD) 81.23		BOREHOLE DIAMETER (mm) 200		DATE COMMENCED 12/09/2012	
		BOREHOLE DEPTH (m) 6.00		DATE COMPLETED 12/09/2012	
CLIENT EPA		SPT HAMMER REF. NO.		BORED BY P.Thomas	
ENGINEER SKM		ENERGY RATIO (%)		PROCESSED BY I.Reeder	

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL		81.03	0.20						
	Brown, sandy slightly gravelly CLAY		80.63	0.60						
	Grey/brown, slightly fibrous silty CLAY		80.13	1.10						
1	Grey, silty fine to coarse GRAVEL		79.83	1.40						
	Dark brown, PEAT		79.63	1.60						
	Grey, slightly sandy very gravelly silty CLAY		79.23	2.00						
2	Grey, coarse GRAVEL with frequent bands of blowing fine to medium gravel									
3										
4										
5										
6	End of Borehole at 6.00 m		75.23	6.00						
7										
8										
9										

HARD STRATA BORING/CHISELLING				WATER STRIKE DETAILS					
From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
3.3	4	2	Blowing gravel	2.10 2.40	2.10 2.40	NO NO	NO 1.20	20 20	Slow Rapid
INSTALLATION DETAILS				GROUNDWATER PROGRESS					
Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments
12-09-12	5.50	2.50	5.50	50mm SP					
REMARKS 2hrs moving rig and equipment to position with assistance of mini digger; 1hr hand dug inspection pit for services to 1.2m					Sample Legend				
					D - Small Disturbed (tub) B - Bulk Disturbed LB - Large Bulk Disturbed Env - Environmental Sample (Jar + Vial + Tub) U - Undisturbed 100mm Diameter Sample P - Undisturbed Piston Sample W - Water Sample				

IGSL BH LOG CHISEL SEPARATED 16412.GPJ IGSL GDT 6/11/12



GEOTECHNICAL BORING RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill				BOREHOLE NO. BH26	
CO-ORDINATES 291,136.50 E 222,406.82 N		RIG TYPE Dando 2000		SHEET Sheet 1 of 3	
GROUND LEVEL (m AOD) 106.15		BOREHOLE DIAMETER (mm) 200		DATE COMMENCED 15/08/2012	
		BOREHOLE DEPTH (m) 27.00		DATE COMPLETED 20/08/2012	
CLIENT EPA		SPT HAMMER REF. NO.		BORED BY W.Cahill	
ENGINEER SKM		ENERGY RATIO (%)		PROCESSED BY I.Reeder	

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	MADE GROUND (comprised of dry MSW: ash 80%, ceramic 4%, wood 6%, plastic 4%, brick 6%)									
1	Very strong rotten eggs gas odour at 1.0m; Gas Readings at 1.0m: O2 - 21.1%, CH4 - 0.4%, CO2 - 0.2%		104.75	1.40	AN3134	B	1.00-1.50			
2	MADE GROUND (comprised of dry to damp MSW: cloth 65%, plastic bags 15%, wood 15%, till, glass and wire 5%) Very strong rotten eggs gas odour at 2.0m; Gas Readings at 2.0m: O2 - 19.5%, CH4 - 7.5%, CO2 - 2.3%, H2S - 30ppm				AN3135	D	2.00-2.00			
3	Strong rotten eggs gas odour at 3.0m; Gas Readings at 3.0m: O2 - 21.2%, CH4 - 0.4%, CO2 - 0.2%				AN3136	B	3.00-3.50			
4	Strong rotten eggs gas odour at 4.0m; Gas Readings at 4.0m: O2 - 18.8%, CH4 - 16.1%, CO2 - 5.8%, H2S - 138ppm				AN3137	D	4.00-4.00			
5	MADE GROUND (comprised of damp MSW: ash 40%, cloth 30%, paper 25%, wood 3%, plastic 2%) Slightly rotten eggs gas odour at 5.0m; Gas Readings at 5.0m: O2 - 21.1%, CH4 - 0.6%, CO2 - 0.5%		101.25	4.90	AN3138	B	5.00-5.50			
6	MADE GROUND (comprised of damp black clay 15%, ash 15%, paper 15%, cloth 20%, wood 20%, plastic 10%, glass, rubber, brick and concrete 5%) Strong rotten eggs gas odour at 6.0m; Gas Readings at 6.0m: O2 - 18.9%, CH4 - 8.2%, CO2 - 4.9%, H2S - 2ppm		100.15	6.00	AN3139	D	6.00-6.00			
7	Medium rotten eggs gas odour at 7.0m; Gas Readings at 7.0m: O2 - 20.4%, CH4 - 1.2%, CO2 - 1.1%				AN3140	B	7.00-7.50			
8	Strong rotten eggs gas odour at 8.0m; Gas Readings at 8.0m: O2 - 17%, CH4 - 8.6%, CO2 - 7.5%		97.95	8.20	AN3141	D	8.00-8.00			
9	MADE GROUND (comprised of damp MSW: brick/concrete 35%, cloth 30%, paper 25%, wood 9%, plastic 1%) Strong rotten eggs gas odour at 9.0m; Gas Readings at 9.0m: O2 - 19.4%, CH4 - 8.8%, CO2 - 15.9%		96.75	9.40	AN3142	B	9.00-9.50			
	MADE GROUND (comprised of damp black clay with brick and concrete 75%, paper 10%, cloth 10%, glass									

HARD STRATA BORING/CHISELLING				WATER STRIKE DETAILS					
From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
9.8	10	0.75	Hard boring strata						No water strike

INSTALLATION DETAILS					GROUNDWATER PROGRESS				
Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments

REMARKS At 10m cutter stuck in casing due to rebar, pull up all casing to moved cutter, BH collapsed up to 5m, redrill BH from 5.0m to 10.0m; From 10.0m reduced casing from 8 inch up to 6 inch; Major obstruction at 27.0m	Sample Legend D - Small Disturbed (tub) B - Bulk Disturbed LB - Large Bulk Disturbed Env - Environmental Sample (Jar + Vial + Tub) U - Undisturbed 100mm Diameter Sample P - Undisturbed Piston Sample W - Water Sample
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IGSL BH LOG CHISEL SEPARATED 16412.GPJ IGSL GDT 6/11/12



GEOTECHNICAL BORING RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill				BOREHOLE NO. BH26	
CO-ORDINATES 291,136.50 E 222,406.82 N		RIG TYPE Dando 2000		SHEET Sheet 2 of 3	
GROUND LEVEL (m AOD) 106.15		BOREHOLE DIAMETER (mm) 200		DATE COMMENCED 15/08/2012	
		BOREHOLE DEPTH (m) 27.00		DATE COMPLETED 20/08/2012	
CLIENT EPA		SPT HAMMER REF. NO.		BORED BY W.Cahill	
ENGINEER SKM		ENERGY RATIO (%)		PROCESSED BY I.Reeder	

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
10	and plastic 5%) MADE GROUND (comprised of damp black clay with brick and concrete 75%, paper 10%, cloth 10%, glass and plastic 5%) (continued) Strong rotten eggs gas odour at 10.0m; Gas Readings at 10.0m: O2 - 14%, CH4 - 5.2%, CO2 - 7.8%		93.75	12.40	AN3143	D	10.00-10.00			
11	Very strong rotten eggs gas odour at 11.0m; Gas Readings at 11.0m: O2 - 20.8%, CH4 - 0.4%, CO2 - 0.4%				AN3144	B	11.00-11.50			
12	Strong rotten eggs gas odour at 12.0m; Gas Readings at 12.0m: O2 - 14.5%, CH4 - 7.9%, CO2 - 9.3%				AN3145	D	12.00-12.00			
13	MADE GROUND (comprised of damp black clay 50%, brick and concrete 15%, wood 20%, paper 5%, cloth 5%, metal and ceramic 5%) Very strong rotten eggs gas odour at 13.0m; Gas Readings at 13.0m: O2 - 15.6%, CH4 - 5.2%, CO2 - 5.7%				AN3146	B	13.00-13.50			
14	Very strong rotten eggs gas odour at 14.0m; Gas Readings at 14.0m: O2 - 17.9%, CH4 - 4.2%, CO2 - 3.3%				AN3147	D	14.00-14.00			
15	Strong rotten eggs gas odour at 15.0m; Gas Readings at 15.0m: O2 - 11.4%, CH4 - 16.3%, CO2 - 12.1%, H2S - 2ppm				AN3148	B	15.00-15.50			
16	Strong rotten eggs gas odour at 16.0m; Gas Readings at 16.0m: O2 - 7.9%, CH4 - 21.8%, CO2 - 17.1%				AN3149	D	16.00-16.00			
17	Medium rotten eggs gas odour at 17.0m; Gas Readings at 17.0m: O2 - 4.4%, CH4 - 30.3%, CO2 - 23.8%, H2S - 12ppm				AN3150	B	17.00-17.50			
18	Strong rotten eggs gas odour at 18.0m; Gas Readings at 18.0m: O2 - 10%, CH4 - 19.2%, CO2 - 14%, H2S - 12ppm				AN3151	D	18.00-18.00			
19	MADE GROUND (comprised of damp to semi wet black clay 15%, wood 80%, cloth, paper and metal 5%) Strong rotten eggs gas odour at 19.0m; Gas Readings at 19.0m: O2 - 20.9%, CH4 - 0.1%, CO2 - 0.1%				AN3152	B	19.00-19.50			

HARD STRATA BORING/CHISELLING				WATER STRIKE DETAILS					
From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
19	19.1	0.5	Hard boring strata						No water strike

INSTALLATION DETAILS					GROUNDWATER PROGRESS				
Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments

REMARKS At 10m cutter stuck in casing due to rebar, pull up all casing to moved cutter, BH collapsed up to 5m, redrill BH from 5.0m to 10.0m; From 10.0m reduced casing from 8 inch up to 6 inch; Major obstruction at 27.0m	Sample Legend D - Small Disturbed (tub) B - Bulk Disturbed LB - Large Bulk Disturbed Env - Environmental Sample (Jar + Vial + Tub) U - Undisturbed 100mm Diameter Sample P - Undisturbed Piston Sample W - Water Sample
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IGSL BH LOG CHISEL SEPARATED 16412.GPJ IGSL GDT 6/11/12



GEOTECHNICAL BORING RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill				BOREHOLE NO. BH26	
CO-ORDINATES 291,136.50 E 222,406.82 N		RIG TYPE Dando 2000		SHEET Sheet 3 of 3	
GROUND LEVEL (m AOD) 106.15		BOREHOLE DIAMETER (mm) 200		DATE COMMENCED 15/08/2012	
		BOREHOLE DEPTH (m) 27.00		DATE COMPLETED 20/08/2012	
CLIENT EPA		SPT HAMMER REF. NO.		BORED BY W.Cahill	
ENGINEER SKM		ENERGY RATIO (%)		PROCESSED BY I.Reeder	

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
20	MADE GROUND (comprised of damp to semi wet black clay 15%, wood 80%, cloth, paper and metal 5%) <i>(continued)</i> Very strong rotten eggs gas odour at 20.0m; Gas Readings at 20.0m: O2 - 5.0%, CH4 - 28.4%, CO2 - 21.4% Slightly rotten eggs gas odour at 21.0m; Gas Readings at 21.0m: O2 - 2.8%, CH4 - 30.6%, CO2 - 24.1% Strong rotten eggs gas odour at 22.0m; Gas Readings at 22.0m: O2 - 5.7%, CH4 - 28.4%, CO2 - 21.9%, H2S - 12ppm Strong rotten eggs gas odour at 23.0m; Gas Readings at 23.0m: O2 - 15.8%, CH4 - 9.0%, CO2 - 6.6%				AN3153	D	20.00-20.00			
21					AN3154	B	21.00-21.50			
22					AN3155	D	22.00-22.00			
23					AN3156	B	23.00-23.50			
			82.45	23.70						
	MADE GROUND (comprised of semi wet grey sandy gravelly clay 100%)		82.35	23.80						
24	MADE GROUND (comprised of semi wet black clay 15%, wood 65%, cloth 7.5%, paper 7.5%, plastic, rubber and metal 5%) Strong rotten eggs gas odour at 24.0m; Gas Readings at 24.0m: O2 - 2.2%, CH4 - 36.9%, CO2 - 27.8%, H2S - 7ppm, CO - 11ppm Strong rotten eggs gas odour at 25.0m; Gas Readings at 25.0m: O2 - 21.0%, CH4 - 0.1%, CO2 - 0.1% Strong rotten eggs gas odour at 26.0m; Gas Readings at 26.0m: O2 - 3.1%, CH4 - 37.1%, CO2 - 19.9%, CO - 235ppm				AN3517	D	24.00-24.00			
25					AN3518	B	25.00-25.50			
26					AN3519	D	26.00-26.00			
27					79.15	27.00	AN3520	B	27.00-27.00	
27	Obstruction - possible big piece of timber Strong rotten eggs gas odour at 27.0m; Gas Readings at 27.0m: O2 - 10.2%, CH4 - 26.4%, CO2 - 14.5%, CO - 20ppm End of Borehole at 27.00 m									
28										
29										

HARD STRATA BORING/CHISELLING				WATER STRIKE DETAILS					
From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
24.3	24.5	0.75	Hard boring strata Chiselling						No water strike
26.9	27	1							

INSTALLATION DETAILS					GROUNDWATER PROGRESS				
Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments

<p>REMARKS At 10m cutter stuck in casing due to rebar, pull up all casing to moved cutter, BH collapsed up to 5m, redrill BH from 5.0m to 10.0m; From 10.0m reduced casing from 8 inch up to 6 inch; Major obstruction at 27.0m</p>	<p>Sample Legend D - Small Disturbed (tub) B - Bulk Disturbed LB - Large Bulk Disturbed Env - Environmental Sample (Jar + Vial + Tub) U - Undisturbed 100mm Diameter Sample P - Undisturbed Piston Sample W - Water Sample</p>
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IGSL BH LOG CHISEL SEPARATED 16412.GPJ IGSL GDT 6/11/12



GEOTECHNICAL CORE LOG RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill		DRILLHOLE NO RC26
		SHEET Sheet 1 of 4
CO-ORDINATES 291,136.50 E 222,406.82 N	RIG TYPE Casagrande FLUSH Water	DATE DRILLED 29/08/2012
GROUND LEVEL (mOD) 106.15		DATE LOGGED 30/08/2012
CLIENT	INCLINATION (deg) -90	DRILLED BY IGSL
ENGINEER SKM	CORE DIAMETER (mm)	LOGGED BY D.O'Shea

Downhole Depth (m)	Core Run Depth (m)	T.C.R.%	S.C.R.%	R.Q.D.%	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)
0					0 250 500			Hole opened by Shell & Auger				
1												
2												
3												
4												
5												
6												
7												
8												
9												

REMARKS BRC done at BH26 location. Hole Cased 0.00-35.70m. Driller 3hrs putting casing in hole, Driller 3.5hrs pulling casing & fitting installation.					WATER STRIKE DETAILS					
					Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
INSTALLATION DETAILS					GROUNDWATER DETAILS					
					Date	Hole Depth	Casing Depth	Depth to Water	Comments	
Date	Tip Depth	RZ Top	RZ Base	Type						
30-08-12	35.70	27.50	35.70	50mm SP						

IGSL RC F1:10M 16412 RC.GPJ IGSL.GDT 6/11/12



GEOTECHNICAL CORE LOG RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill		DRILLHOLE NO RC26
		SHEET Sheet 2 of 4
CO-ORDINATES 291,136.50 E 222,406.82 N	RIG TYPE Casagrande	DATE DRILLED 29/08/2012
GROUND LEVEL (mOD) 106.15	FLUSH Water	DATE LOGGED 30/08/2012
CLIENT	INCLINATION (deg) -90	DRILLED BY IGSL
ENGINEER SKM	CORE DIAMETER (mm)	LOGGED BY D.O'Shea

Downhole Depth (m)	Core Run Depth (m)	T.C.R.%	S.C.R.%	R.Q.D.%	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)
10					0 250 500			Hole opened by Shell & Auger (continued)				
11												
12												
13												
14												
15												
16												
17												
18												
19												

REMARKS BRC done at BH26 location. Hole Cased 0.00-35.70m. Driller 3hrs putting casing in hole, Driller 3.5hrs pulling casing & fitting installation.					WATER STRIKE DETAILS					
					Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
INSTALLATION DETAILS					GROUNDWATER DETAILS					
					Date	Hole Depth	Casing Depth	Depth to Water	Comments	
Date	Tip Depth	RZ Top	RZ Base	Type						
30-08-12	35.70	27.50	35.70	50mm SP						

IGSL RC F1:10M 16412 RC.GPJ IGSL.GDT 6/11/12



GEOTECHNICAL CORE LOG RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill		DRILLHOLE NO RC26
		SHEET Sheet 3 of 4
CO-ORDINATES 291,136.50 E 222,406.82 N	RIG TYPE Casagrande	DATE DRILLED 29/08/2012
GROUND LEVEL (MOD) 106.15	FLUSH Water	DATE LOGGED 30/08/2012
CLIENT	INCLINATION (deg) -90	DRILLED BY IGSL
ENGINEER SKM	CORE DIAMETER (mm)	LOGGED BY D.O'Shea

Downhole Depth (m)	Core Run Depth (m)	T.C.R.%	S.C.R.%	R.Q.D.%	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)
20								Hole opened by Shell & Auger <i>(continued)</i>				
21									21.50	84.65		
22								SYMMETRIX DRILLING: No recovery, observed by driller as returns of MADE GROUND consisting of municipal waste with timber				
23												
24												
25												
26												
27									27.50	78.65		
28								SYMMETRIX DRILLING: No recovery, observed by driller as returns of gravel				
29								SYMMETRIX DRILLING: No recovery, observed by driller as returns of sandy gravel	29.50	76.65		

REMARKS BRC done at BH26 location. Hole Cased 0.00-35.70m. Driller 3hrs putting casing in hole, Driller 3.5hrs pulling casing & fitting installation.					WATER STRIKE DETAILS					
					Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
										No water strike recorded
INSTALLATION DETAILS					GROUNDWATER DETAILS					
					Date	Hole Depth	Casing Depth	Depth to Water	Comments	
Date	Tip Depth	RZ Top	RZ Base	Type						
30-08-12	35.70	27.50	35.70	50mm SP						

IGSL RC F1:10M 16412 RC.GPJ IGSL.GDT 8/11/12



GEOTECHNICAL CORE LOG RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill		DRILLHOLE NO RC26
CO-ORDINATES 291,136.50 E 222,406.82 N		SHEET Sheet 4 of 4
GROUND LEVEL (MOD) 106.15	RIG TYPE Casagrande	DATE DRILLED 29/08/2012
CLIENT	FLUSH Water	DATE LOGGED 30/08/2012
ENGINEER SKM	INCLINATION (deg) -90	DRILLED BY IGSL
	CORE DIAMETER (mm)	LOGGED BY D.O'Shea

Downhole Depth (m)	Core Run Depth (m)	T.C.R.%	S.C.R.%	R.Q.D.%	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)
30								SYMMETRIX DRILLING: No recovery, observed by driller as returns of sandy gravel (<i>continued</i>)				
31												
32								SYMMETRIX DRILLING: No recovery, observed by driller as returns of sandy gravelly clay	32.00	74.15		
33												
34												
35												
36								End of Borehole at 35.70 m	35.70	70.45		
37												
38												
39												

REMARKS BRC done at BH26 location. Hole Cased 0.00-35.70m. Driller 3hrs putting casing in hole, Driller 3.5hrs pulling casing & fitting installation.					WATER STRIKE DETAILS					
					Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
INSTALLATION DETAILS					GROUNDWATER DETAILS					
					Date	Hole Depth	Casing Depth	Depth to Water	Comments	
Date	Tip Depth	RZ Top	RZ Base	Type						
30-08-12	35.70	27.50	35.70	50mm SP						

IGSL RC F1:10M 16412 RC.GPJ IGSL.GDT 6/11/12



GEOTECHNICAL BORING RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill				BOREHOLE NO. BH36B	
CO-ORDINATES 291,286.00 E 222,308.35 N		RIG TYPE Dando 3000		SHEET Sheet 1 of 3	
GROUND LEVEL (m AOD) 112.74		BOREHOLE DIAMETER (mm) 250		DATE COMMENCED 23/08/2012	
		BOREHOLE DEPTH (m) 26.00		DATE COMPLETED 31/08/2012	
CLIENT EPA		SPT HAMMER REF. NO.		BORED BY M.Connolly	
ENGINEER SKM		ENERGY RATIO (%)		PROCESSED BY I.Reeder	

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	MADE GROUND (comprised of dry dark brown gravelly clay 100%)		112.24	0.50						
1	MADE GROUND (comprised of damp black silty clay with gravel 70%, plastic 10%, wood 20%) Medium rotten eggs gas odour at 1.0m; Gas Readings at 1.0m: O2 - 21%, CH4 - 0.0%, CO2 - 0.0%					AN3455	B	1.00-1.50		
2	Medium rotten eggs gas odour at 2.0m; Gas Readings at 2.0m: O2 - 20.9%, CH4 - 0.3%, CO2 - 0.1%					AN3456	D	2.00-2.00		
3	Medium rotten eggs gas odour at 3.0m; Gas Readings at 3.0m: O2 - 20.9%, CH4 - 0.5%, CO2 - 0.3%					AN3457	B	3.00-3.50		
4	Medium rotten eggs gas odour at 4.0m; Gas Readings at 4.0m: O2 - 20.5%, CH4 - 1%, CO2 - 0.7%			108.44	4.30	AN3458	D	4.00-4.00		
5	MADE GROUND (comprised of damp black silty clay with gravel 20%, metal 10%, wood 35%, old cables 10%, plastic 25%) Strong rotten eggs gas odour at 5.0m; Gas Readings at 5.0m: O2 - 18.9%, CH4 - 7%, CO2 - 4.2%, H2S - 35ppm					AN3459	B	5.00-5.50		
6	Strong rotten eggs gas odour at 6.0m; Gas Readings at 6.0m: O2 - 14%, CH4 - 19.1%, CO2 - 11.1%, H2S - 175ppm			106.44	6.30	AN3460	D	6.00-6.00		
7	MADE GROUND (comprised of damp MSW: plastic 30%, paper 20%, metal 5%, textile 25%, old cables 10%, wood 10%) Strong rotten eggs gas odour at 7.0m; Gas Readings at 7.0m: O2 - 13.5%, CH4 - 19.3%, CO2 - 11.5%, H2S - >220ppm					AN3461	B	7.00-7.50		
8	Strong rotten eggs gas odour at 8.0m; Gas Readings at 8.0m: O2 - 13.2%, CH4 - 19.5%, CO2 - 11.8%, H2S - >220ppm			104.04	8.70	AN3462	D	8.00-8.00		
9	MADE GROUND (comprised of dry MSW: wood 40%, textile 15%, plastic 25%, paper 10%, cables 10%) Strong rotten eggs gas odour at 9.0m; Gas Readings at 9.0m: O2 - 18%, CH4 - 9%, CO2 - 5.1%, H2S - >220ppm				AN3463	B	9.00-9.50			

HARD STRATA BORING/CHISELLING				WATER STRIKE DETAILS					
From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
4.7	5	0.25	Hard boring strata						No water strike
6.2	6.4	0.25	Hard boring strata						
9.3	9.4	0.5	Hard boring strata						

INSTALLATION DETAILS					GROUNDWATER PROGRESS				
Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments

REMARKS Obstruction at 13.2m due to stuck rebar between cutter and lead casing, pull up all casing to moved cutter. Reduced casing up to 8 inch from 13.2m	Sample Legend D - Small Disturbed (tub) B - Bulk Disturbed LB - Large Bulk Disturbed Env - Environmental Sample (Jar + Vial + Tub) U - Undisturbed 100mm Diameter Sample P - Undisturbed Piston Sample W - Water Sample
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IGSL BH LOG CHISEL SEPARATED 16412.GPJ IGSL GDT 6/11/12



GEOTECHNICAL BORING RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill				BOREHOLE NO. BH36B	
CO-ORDINATES 291,286.00 E 222,308.35 N		RIG TYPE Dando 3000		SHEET Sheet 2 of 3	
GROUND LEVEL (m AOD) 112.74		BOREHOLE DIAMETER (mm) 250		DATE COMMENCED 23/08/2012	
		BOREHOLE DEPTH (m) 26.00		DATE COMPLETED 31/08/2012	
CLIENT EPA		SPT HAMMER REF. NO.		BORED BY M.Connolly	
ENGINEER SKM		ENERGY RATIO (%)		PROCESSED BY I.Reeder	

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
10	MADE GROUND (comprised of dry MSW: wood 40%, textile 15%, plastic 25%, paper 10%, cables 10%) <i>(continued)</i> Strong rotten eggs gas odour at 10.0m; Gas Readings at 10.0m: O2 - 17.5%, CH4 - 10.1%, CO2 - 5.5%, H2S - >220ppm				AN3464	D	10.00-10.00			
11	Strong rotten eggs gas odour at 11.0m; Gas Readings at 11.0m: O2 - 4.5%, CH4 - 38.4%, CO2 - 24.2%, H2S - >220ppm				AN3465	B	11.00-11.50			
12	Strong rotten eggs gas odour at 12.0m; Gas Readings at 12.0m: O2 - 16.5%, CH4 - 8.1%, CO2 - 5.1%, H2S - 20ppm		100.54	12.20	AN3466	D	12.00-12.00			
13	MADE GROUND (comprised of dry MSW: wood 40%, textile 20%, plastic 30%, paper 5%, steel 5%) Strong rotten eggs gas odour at 13.0m; Gas Readings at 13.0m: O2 - 17%, CH4 - 7.5%, CO2 - 4.6%, H2S - 25ppm		99.54	13.20	AN3467	B	13.00-13.50			
14	MADE GROUND (comprised of dry MSW: wood 40%, textile 20%, plastic 20%, paper 10%, cobbles 10%) Strong rotten eggs gas odour at 14.0m; Gas Readings at 14.0m: O2 - 20.2%, CH4 - 1.2%, CO2 - 0.7%, H2S - 34ppm		98.64	14.10	AN3468	D	14.00-14.00			
15	MADE GROUND (comprised of dry MSW: wood 60%, textile 5%, plastic 10%, steel 5%, concrete pieces 20%) Very strong rotten eggs gas odour at 15.0m; Gas Readings at 15.0m: O2 - 20.3%, CH4 - 0.8%, CO2 - 0.5%, H2S - 10ppm				AN3469	B	15.00-15.50			
16	Very strong rotten eggs gas odour at 16.0m; Gas Readings at 16.0m: O2 - 20.5%, CH4 - 0.6%, CO2 - 0.4%, H2S - 2ppm				AN3470	D	16.00-16.00			
17	Very strong rotten eggs gas odour at 17.0m; Gas Readings at 17.0m: O2 - 18.9%, CH4 - 3.1%, CO2 - 2.1%, H2S - 4ppm		95.14	17.60	AN3471	B	17.00-17.50			
18	MADE GROUND (comprised of dry MSW: wood 80%, textile 10%, plastic 10%) Very strong rotten eggs gas odour at 18.0m; Gas Readings at 18.0m: O2 - 17.7%, CH4 - 4.2%, CO2 - 3.7%, H2S - 4ppm				AN3472	D	18.00-18.00			
19	MADE GROUND (comprised of dry MSW: wood 100%) Very strong rotten eggs gas odour at 19.0m; Gas Readings at 19.0m: O2 - 18.6%, CH4 - 3.3%, CO2 - 3.1%		93.84	18.90	AN3473	B	19.00-19.50			

HARD STRATA BORING/CHISELLING				WATER STRIKE DETAILS					
From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
10.7	10.9	0.5	Hard boring strata						No water strike
11.3	11.6	0.75	Hard boring strata						
12.9	13.2	0.5	Hard boring strata						
15.1	15.4	0.75	Hard boring strata						
18.3	18.5	1	Hard boring strata						
19	19.3	0.75	Hard boring strata						

INSTALLATION DETAILS					GROUNDWATER PROGRESS				
Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments

REMARKS Obstruction at 13.2m due to stuck rebar between cutter and lead casing, pull up all casing to moved cutter. Reduced casing up to 8 inch from 13.2m	Sample Legend D - Small Disturbed (tub) B - Bulk Disturbed LB - Large Bulk Disturbed Env - Environmental Sample (Jar + Vial + Tub) U - Undisturbed 100mm Diameter Sample P - Undisturbed Piston Sample W - Water Sample
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IGSL BH LOG CHISEL SEPARATED 16412.GPJ IGSL GDT 6/11/12



GEOTECHNICAL BORING RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill				BOREHOLE NO. BH36B	
CO-ORDINATES 291,286.00 E 222,308.35 N		RIG TYPE Dando 3000		SHEET Sheet 3 of 3	
GROUND LEVEL (m AOD) 112.74		BOREHOLE DIAMETER (mm) 250		DATE COMMENCED 23/08/2012	
		BOREHOLE DEPTH (m) 26.00		DATE COMPLETED 31/08/2012	
CLIENT EPA		SPT HAMMER REF. NO.		BORED BY M.Connolly	
ENGINEER SKM		ENERGY RATIO (%)		PROCESSED BY I.Reeder	

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
20	MADE GROUND (comprised of dry MSW: wood 100%) <i>(continued)</i> Very strong rotten eggs gas odour at 20.0m; Gas Readings at 20.0m: O2 - 6.4%, CH4 - 18.9%, CO2 - 16.8%, CO - 14ppm		91.14	21.60	AN3474	D	20.00-20.00			
21	Very strong rotten eggs gas odour at 21.0m; Gas Readings at 21.0m: O2 - 19.3%, CH4 - 1.7%, CO2 - 1.4%				AN3475	B	21.00-21.50			
22	MADE GROUND (comprised of dry MSW: wood 70%, steel 10%, paper 10%, textile 10%) Very strong rotten eggs gas odour at 22.0m; Gas Readings at 22.0m: O2 - 19.1%, CH4 - 2.7%, CO2 - 2.0%, H2S - 85ppm				AN3476	D	22.00-22.00			
23	Very strong rotten eggs gas odour at 23.0m; Gas Readings at 23.0m: O2 - 18.1%, CH4 - 6.0%, CO2 - 4.2%, H2S - 37ppm				AN3477	B	23.00-23.50			
24	MADE GROUND (comprised of dry MSW: wood 100%) Very strong rotten eggs gas odour at 24.0m; Gas Readings at 24.0m: O2 - 19.1%, CH4 - 2.4%, CO2 - 1.7%, H2S - 25ppm				AN3478	D	24.00-24.00			
25	MADE GROUND (comprised of dry MSW: wood 20%, textile 20%, plastic 20%, steel 10%, concrete 5%, gravel 5%, paper 20%) Strong rotten eggs gas odour at 25.0m; Gas Readings at 25.0m: O2 - 19.9%, CH4 - 1.9%, CO2 - 1.4%				AN3479	B	25.00-25.50			
26	End of Borehole at 26.00 m		86.74	26.00	AN3480	D	26.00-26.00			
27										
28										
29										

HARD STRATA BORING/CHISELLING				WATER STRIKE DETAILS					
From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
22.7	22.9	0.5	Hard boring strata						No water strike
23.6	23.8	0.75	Hard boring strata						
23.8	23.9	0.25	Hard boring strata						
24.4	25	1.5	Hard boring strata						
25.3	25.5	0.5	Hard boring strata						
26	26	2	Hard boring strata						

INSTALLATION DETAILS					GROUNDWATER PROGRESS				
Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments

REMARKS Obstruction at 13.2m due to stuck rebar between cutter and lead casing, pull up all casing to moved cutter. Reduced casing up to 8 inch from 13.2m	Sample Legend D - Small Disturbed (tub) B - Bulk Disturbed LB - Large Bulk Disturbed Env - Environmental Sample (Jar + Vial + Tub) U - Undisturbed 100mm Diameter Sample P - Undisturbed Piston Sample W - Water Sample
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IGSL BH LOG CHISEL SEPARATED 16412.GPJ IGSL GDT 6/11/12



GEOTECHNICAL CORE LOG RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill		DRILLHOLE NO RC36B
		SHEET Sheet 1 of 4
CO-ORDINATES 291,286.00 E 222,308.35 N	RIG TYPE Casagrande FLUSH Water	DATE DRILLED 13/09/2012
GROUND LEVEL (mOD) 112.74		DATE LOGGED 14/09/2012
CLIENT	INCLINATION (deg) -90	DRILLED BY IGSL
ENGINEER SKM	CORE DIAMETER (mm)	LOGGED BY D.O'Shea

Downhole Depth (m)	Core Run Depth (m)	T.C.R.%	S.C.R.%	R.Q.D.%	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)
0					0 250 500			Hole opened by Shell & Auger				
1												
2												
3												
4												
5												
6												
7												
8												
9												

REMARKS RC done at BH36B location. Hole Cased 0.00-38.50m. Driller standing 1.8hrs waiting for water to enter hole. Driller 3.25hrs pulling casing					WATER STRIKE DETAILS						
					Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments	
										No water strike recorded	
INSTALLATION DETAILS					GROUNDWATER DETAILS						
					Date	Hole Depth	Casing Depth	Depth to Water	Comments		
Date	Tip Depth	RZ Top	RZ Base	Type							
14-09-12	38.50	33.00	38.50	50mm SP							

IGSL RC F1:10M 16412 RC.GPJ IGSL.GDT 6/11/12



GEOTECHNICAL CORE LOG RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill		DRILLHOLE NO RC36B
		SHEET Sheet 2 of 4
CO-ORDINATES 291,286.00 E 222,308.35 N	RIG TYPE Casagrande	DATE DRILLED 13/09/2012
GROUND LEVEL (mOD) 112.74	FLUSH Water	DATE LOGGED 14/09/2012
CLIENT	INCLINATION (deg) -90	DRILLED BY IGSL
ENGINEER SKM	CORE DIAMETER (mm)	LOGGED BY D.O'Shea

Downhole Depth (m)	Core Run Depth (m)	T.C.R.%	S.C.R.%	R.Q.D.%	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)
10					0 250 500			Hole opened by Shell & Auger (continued)				
11												
12												
13												
14												
15												
16												
17												
18												
19												

REMARKS RC done at BH36B location. Hole Cased 0.00-38.50m. Driller standing 1.8hrs waiting for water to enter hole. Driller 3.25hrs pulling casing					WATER STRIKE DETAILS					
					Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
										No water strike recorded
INSTALLATION DETAILS					GROUNDWATER DETAILS					
					Date	Hole Depth	Casing Depth	Depth to Water	Comments	
Date	Tip Depth	RZ Top	RZ Base	Type						
14-09-12	38.50	33.00	38.50	50mm SP						

IGSL RC F1:10M 16412 RC.GPJ IGSL.GDT 6/11/12



GEOTECHNICAL CORE LOG RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill		DRILLHOLE NO RC36B
CO-ORDINATES 291,286.00 E 222,308.35 N		SHEET Sheet 3 of 4
GROUND LEVEL (mOD) 112.74	RIG TYPE Casagrande	DATE DRILLED 13/09/2012
CLIENT	FLUSH Water	DATE LOGGED 14/09/2012
ENGINEER SKM	INCLINATION (deg) -90	DRILLED BY IGSL
	CORE DIAMETER (mm)	LOGGED BY D.O'Shea

Downhole Depth (m)	Core Run Depth (m)	T.C.R.%	S.C.R.%	R.Q.D.%	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)
20								Hole opened by Shell & Auger <i>(continued)</i>				
21								SYMMETRIX DRILLING: No recovery, observed by driller as returns of MADE GROUND consisting of municipal waste	21.00	91.74		
22								SYMMETRIX DRILLING: No recovery, observed by driller as returns of MADE GROUND consisting of municipal waste & metal	22.00	90.74		
23								SYMMETRIX DRILLING: No recovery, observed by driller as returns of MADE GROUND consisting of municipal waste with timber	23.20	89.54		
24												
25								SYMMETRIX DRILLING: No recovery, observed by driller as returns of MADE GROUND consisting of municipal waste	25.00	87.74		
26												
27								SYMMETRIX DRILLING: No recovery, observed by driller as returns of sandy gravel	26.90	85.84		
28												
29												

REMARKS RC done at BH36B location. Hole Cased 0.00-38.50m. Driller standing 1.8hrs waiting for water to enter hole. Driller 3.25hrs pulling casing					WATER STRIKE DETAILS						
					Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments	
										No water strike recorded	
INSTALLATION DETAILS					GROUNDWATER DETAILS						
					Date	Hole Depth	Casing Depth	Depth to Water	Comments		
Date	Tip Depth	RZ Top	RZ Base	Type							
14-09-12	38.50	33.00	38.50	50mm SP							

IGSL RC F1:10M 16412 RC.GPJ IGSL.GDT 6/11/12



GEOTECHNICAL CORE LOG RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill		DRILLHOLE NO RC36B
		SHEET Sheet 4 of 4
CO-ORDINATES 291,286.00 E 222,308.35 N	RIG TYPE Casagrande	DATE DRILLED 13/09/2012
GROUND LEVEL (mOD) 112.74	FLUSH Water	DATE LOGGED 14/09/2012
CLIENT	INCLINATION (deg) -90	DRILLED BY IGSL
ENGINEER SKM	CORE DIAMETER (mm)	LOGGED BY D.O'Shea

Downhole Depth (m)	Core Run Depth (m)	T.C.R.%	S.C.R.%	R.Q.D.%	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)
30					0 250 500			SYMMETRIX DRILLING: No recovery, observed by driller as returns of sandy gravel (<i>continued</i>)				
31												
32												
33												
34												
35												
36												
37												
38									38.50	74.24		
39								End of Borehole at 38.50 m				

REMARKS RC done at BH36B location. Hole Cased 0.00-38.50m. Driller standing 1.8hrs waiting for water to enter hole. Driller 3.25hrs pulling casing					WATER STRIKE DETAILS						
					Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments	
										No water strike recorded	
INSTALLATION DETAILS					GROUNDWATER DETAILS						
					Date	Hole Depth	Casing Depth	Depth to Water	Comments		
Date	Tip Depth	RZ Top	RZ Base	Type	14-09-12	38.50	38.50	37.00	Water level recorded 10mins after end of drilling		
14-09-12	38.50	33.00	38.50	50mm SP							

IGSL RC F1:10M 16412 RC.GPJ IGSL.GDT 6/11/12



GEOTECHNICAL BORING RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill				BOREHOLE NO. BH40A	
CO-ORDINATES 291,393.49 E 222,108.72 N		RIG TYPE Dando 2000		SHEET Sheet 1 of 1	
GROUND LEVEL (m AOD) 94.40		BOREHOLE DIAMETER (mm) 250		DATE COMMENCED 02/10/2012	
		BOREHOLE DEPTH (m) 1.70		DATE COMPLETED 02/10/2012	
CLIENT EPA		SPT HAMMER REF. NO.		BORED BY W.Cahill	
ENGINEER SKM		ENERGY RATIO (%)		PROCESSED BY I.Reeder	

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	MADE GROUND (comprised of dry MSW: clay 20%, gravel cobbles and boulders 45%, concrete and brick 30%, timber 5%)									
1	Medium musky smell at 1.0m; No gas readings taken at 1.0m									
2	Obstruction - possible concrete or boulder End of Borehole at 1.70 m		92.70	1.70						
3										
4										
5										
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING					WATER STRIKE DETAILS					
From (m)	To (m)	Time (h)	Comments		Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
1.7	1.7	0.5	Chiselling							No water strike
INSTALLATION DETAILS					GROUNDWATER PROGRESS					
Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments	
REMARKS Obstruction at 1.7m due to possible concrete or boulder, instructed to move few meters and repeat - see BH40C log					Sample Legend D - Small Disturbed (tub) B - Bulk Disturbed LB - Large Bulk Disturbed Env - Environmental Sample (Jar + Vial + Tub) U - Undisturbed 100mm Diameter Sample P - Undisturbed Piston Sample W - Water Sample					

IGSL BH LOG CHISEL SEPARATED 16412.GPJ IGSL.GDT 6/11/12



GEOTECHNICAL BORING RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill				BOREHOLE NO. BH40B	
CO-ORDINATES 291,392.81 E 222,105.84 N		RIG TYPE Dando 2000		SHEET Sheet 1 of 2	
GROUND LEVEL (m AOD) 94.46		BOREHOLE DIAMETER (mm) 250		DATE COMMENCED 02/10/2012	
		BOREHOLE DEPTH (m) 16.30		DATE COMPLETED 04/10/2012	
CLIENT EPA		SPT HAMMER REF. NO.		BORED BY W.Cahill	
ENGINEER SKM		ENERGY RATIO (%)		PROCESSED BY I.Reeder	

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	MADE GROUND (comprised of dry brown clay 20%, gravel cobbles and boulders 45%, concrete and brick 30%, wood 5%)		91.76	2.70						
1	Medium musk gas odour at 1.0m; Gas Readings at 1.0m: O2 - 19.6%, CH4 - 0.0%, CO2 - 1.1%				AN3821	D	1.00-1.00			
2	Medium musk gas odour at 2.0m; Gas Readings at 2.0m: O2 - 19.7%, CH4 - 0.0%, CO2 - 0.7%				AN3822	B	2.00-2.00			
3	MADE GROUND (comprised of light brown sandy silty clay with some gravel and refuse content) Medium musk gas odour at 3.0m; Gas Readings at 3.0m: O2 - 19.6%, CH4 - 0.0%, CO2 - 0.9%				AN3823	D	3.00-3.00			
4	Medium musk gas odour at 4.0m; Gas Readings at 4.0m: O2 - 19.8%, CH4 - 0.0%, CO2 - 0.7%				AN3824	B	4.00-4.00			
5	Medium musk gas odour at 5.0m; Gas Readings at 5.0m: O2 - 19.6%, CH4 - 0.0%, CO2 - 0.8%				AN3825	D	5.00-5.00			
6	NO gas odour at 6.0m; No Gas Readings taken at 6.0m				AN3826	B	6.00-6.00			
7	NO gas odour at 7.0m; No Gas Readings taken at 7.0m				AN3827	D	7.00-7.00			
8	NO gas odour at 8.0m; No Gas Readings taken at 8.0m				AN3828	B	8.00-8.00			
9	NO gas odour at 9.0m; No Gas Readings taken at 9.0m	AN3829	D	9.00-9.00						
			84.66	9.80						

HARD STRATA BORING/CHISELLING				WATER STRIKE DETAILS					
From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
9.8	10.3	1.75	Chiselling						
INSTALLATION DETAILS				GROUNDWATER PROGRESS					
Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments
04-10-12	16.30	13.30	16.30	50mm SP					
REMARKS					Sample Legend				
Hit concrete at 9.8m - instructed to continue chiselling to break through; Reduced casing from 10inch to 8inch at 13.0m					D - Small Disturbed (tub) B - Bulk Disturbed LB - Large Bulk Disturbed Env - Environmental Sample (Jar + Vial + Tub) U - Undisturbed 100mm Diameter Sample P - Undisturbed Piston Sample W - Water Sample				

IGSL BH LOG CHISEL SEPARATED 16412.GPJ IGSL GDT 6/11/12



GEOTECHNICAL BORING RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill				BOREHOLE NO. BH40B	
CO-ORDINATES 291,392.81 E 222,105.84 N		RIG TYPE Dando 2000		SHEET Sheet 2 of 2	
GROUND LEVEL (m AOD) 94.46		BOREHOLE DIAMETER (mm) 250		DATE COMMENCED 02/10/2012	
		BOREHOLE DEPTH (m) 16.30		DATE COMPLETED 04/10/2012	
CLIENT EPA		SPT HAMMER REF. NO.		BORED BY W.Cahill	
ENGINEER SKM		ENERGY RATIO (%)		PROCESSED BY I.Reeder	

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
10	MADE GROUND (comprised of large concrete fragments with sparse very sandy clay) (<i>continued</i>) NO gas odour at 10.0m; No Gas Readings taken at 10.0m		84.16	10.30	AN3830	B	10.00-10.00			
11	MADE GROUND (comprised dark brown sandy clay 90%, concrete 10%) NO gas odour at 11.0m; No Gas Readings taken at 11.0m		82.76	11.70	AN3831	D	11.00-11.00			
12	MADE GROUND (comprised of light brown silty sand 90%, wood 5%, concrete 5%) NO gas odour at 12.0m; No Gas Readings taken at 12.0m				AN3832	B	12.00-12.00			
13	Dense, light brown, silty SAND (natural ground) NO gas odour at 13.0m; No Gas Readings taken at 13.0m		81.46	13.00	AN3833	D	13.00-13.00			
14	NO gas odour at 14.0m; No Gas Readings taken at 14.0m				AN3834	B	14.00-14.00			
15	NO gas odour at 15.0m; No Gas Readings taken at 15.0m		78.86	15.60	AN3835	D	15.00-15.00			
16	Dense, brown, sandy fine to coarse GRAVEL NO gas odour at 16.0m; No Gas Readings taken at 16.0m End of Borehole at 16.30 m		78.16	16.30	AN3836	B	16.00-16.00			

HARD STRATA BORING/CHISELLING				WATER STRIKE DETAILS					
From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
				15.60	15.60	NO	14.20	20	Rapid

INSTALLATION DETAILS					GROUNDWATER PROGRESS				
Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments
04-10-12	16.30	13.30	16.30	50mm SP					

REMARKS Hit concrete at 9.8m - instructed to continue chiselling to break through; Reduced casing from 10inch to 8inch at 13.0m	Sample Legend D - Small Disturbed (tub) B - Bulk Disturbed LB - Large Bulk Disturbed Env - Environmental Sample (Jar + Vial + Tub) U - Undisturbed 100mm Diameter Sample P - Undisturbed Piston Sample W - Water Sample
--	---

IGSL BH LOG CHISEL SEPARATED 16412.GPJ IGSL.GDT 6/11/12



GEOTECHNICAL CORE LOG RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill		DRILLHOLE NO BH42
CO-ORDINATES 291,542.94 E 221,929.36 N		SHEET Sheet 1 of 2
GROUND LEVEL (mOD) 82.27	RIG TYPE Casagrande FLUSH Water	DATE DRILLED 20/08/2012 DATE LOGGED 20/08/2012
CLIENT ENGINEER SKM	INCLINATION (deg) -90 CORE DIAMETER (mm)	DRILLED BY IGSL LOGGED BY D.O'Shea

Downhole Depth (m)	Core Run Depth (m)	T.C.R.%	S.C.R.%	R.Q.D.%	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)
0					0 250 500			SYMMETRIX DRILLING: No recovery, observed by driller as returns of MADE GROUND consisting of sand with timber	1.00	81.27		
1								SYMMETRIX DRILLING: No recovery, observed by driller as returns of silty sandy clay				
2								SYMMETRIX DRILLING: No recovery, observed by driller as returns of sandy clay	2.50	79.77		
3								SYMMETRIX DRILLING: No recovery, observed by driller as returns of sandy gravelly clay	4.00	78.27		
4								SYMMETRIX DRILLING: No recovery, observed by driller as returns of clay	6.00	76.27		
5								SYMMETRIX DRILLING: No recovery, observed by driller as returns of sandy gravel	7.00	75.27		
6												
7												
8												
9												

REMARKS Hole Cased 0.00-10.10m.					WATER STRIKE DETAILS					
					Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
					7.00					Slow
INSTALLATION DETAILS					GROUNDWATER DETAILS					
					Date	Hole Depth	Casing Depth	Depth to Water	Comments	
Date	Tip Depth	RZ Top	RZ Base	Type						

IGSL RC Fl 10M 16412 RC.GPJ IGSL.GDT 6/11/12



GEOTECHNICAL CORE LOG RECORD

REPORT NUMBER

16412

CONTRACT Kerdiffstown Landfill		DRILLHOLE NO BH42
CO-ORDINATES 291,542.94 E 221,929.36 N		SHEET Sheet 2 of 2
GROUND LEVEL (mOD) 82.27	RIG TYPE Casagrande	DATE DRILLED 20/08/2012
	FLUSH Water	DATE LOGGED 20/08/2012
CLIENT	INCLINATION (deg) -90	DRILLED BY IGSL
ENGINEER SKM	CORE DIAMETER (mm)	LOGGED BY D.O'Shea

Downhole Depth (m)	Core Run Depth (m)	T.C.R.%	S.C.R.%	R.Q.D.%	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)
10					0 250 500			End of Borehole at 10.10 m	10.10	72.17		
11												
12												
13												
14												
15												
16												
17												
18												
19												

REMARKS Hole Cased 0.00-10.10m.					WATER STRIKE DETAILS				
					Water Strike	Casing Depth	Sealed At	Rise To	Time (min)
INSTALLATION DETAILS					GROUNDWATER DETAILS				
					Date	Hole Depth	Casing Depth	Depth to Water	Comments
Date	Tip Depth	RZ Top	RZ Base	Type	20-08-12	10.10	10.10	2.50	Water level recorded 10mins after end of drilling

IGSL RC FI 10M 16412 RC.GPJ IGSL.GDT 6/11/12

Project Name: Kerdiffstown Landfill	Project No.: P11114	Co-ords: 291358E - 221881N	Hole Type: Cable
Client: Environmental Protection Agency	Dates: 10/01/2012-12/01/2012	Level: 92.67 m AOD	Scale: 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
					92.63	0.04	Topsoil with cobbles. Slightly sandy slightly gravelly CLAY with black boulders - odourless.		
					91.23	1.44	Stiff, gravelly CLAY with black boulders - odourless.		
					89.87	2.80	Stiff, gravelly CLAY with angular, black boulders - odourless.		
					88.47	4.20	Stiff, sandy CLAY with boulders - odourless. 4.2m - 5.5m: Water added to aid drilling.		
					87.17	5.50	Hard, boulder CLAY - odourless.		
					86.41	6.26	GRAVEL.		
					86.17	6.50	SAND with cobbles.		
		6.76	CPT	N=14 (2,2/3,3,4,4)	6.76	85.91	6.76	Medium dense GRAVEL. 7.0m: O2 - 20.1%.	
						85.47	7.20	GRAVEL with boulders - odourless.	
					8.60	84.07	8.60	End of Borehole at 8.60 m	

Groundwater:					Hole Information:			Chiselling:		
Struck	Rose to	After	Sealed	Comment	Hole Depth	Hole Diameter	Casing Diameter	Depths (m)	Time (hhmm)	Tool
7.26m	7.10m	20min	-		8.60m	200mm	200mm	2.00 to 2.20	0030	Chisel
								3.20 to 3.25	0030	Chisel
								5.20 to 5.30	0030	Chisel
								8.00 to 8.00	0030	Chisel

Remarks: Borehole terminated by Engineer (SKM). Standpipe installed, response zone from 8.0m to 5.0m.	Shift Data:	Groundwater	Shift (dd/mm/yyyy)	Casing depth	Remarks
		-	10/01/2012	0.00m	Start of Borehole
		-	10/01/2012	4.20m	End of shift
		-	11/01/2012	4.20m	Start of shift
		7.10m	11/01/2012	7.36m	End of shift
		6.96m	12/01/2012	7.36m	Start of shift
		8.50m	12/01/2012	8.60m	End of Borehole

Equipment & Methods: Dando 2000



**PRIORITY
GEOTECHNICAL**

Priority Geotechnical Ltd.
Tel: 021 4631600
Fax: 021 4638690
www.prioritygeotechnical.ie

Drilled By
RN
Logged By

Borehole No
SI 1 BH06
Sheet 1 of 1

Project Name: Kerdiffstown Landfill	Project No.: P11114	Co-ords: 291700E - 221906N	Hole Type: Cable
Client: Environmental Protection Agency	Dates: 13/01/2012-16/01/2012	Level: 80.84 m AOD	Scale: 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
		0.00-1.00	D			79.84	1.00	Slightly sandy GRAVEL with bricks and MSW (Approx. 2%). Gravel is medium to coarse, subangular to subrounded.	
		1.00-1.65	D					Very sandy GRAVEL with black cobbles. Sand is fine to coarse. Gravel is fine to medium, subangular to subrounded.	
		1.65-3.00	D						
					3.00	77.84	3.00	End of Borehole at 3.00 m	

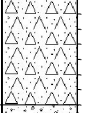
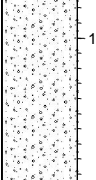
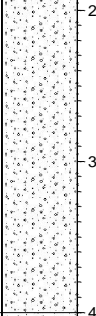
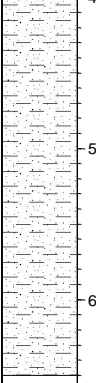
Water	Depth (m)	Type	Results	Casing	Level	Depth
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Groundwater:					Hole Information:			Chiselling:		
Struck	Rose to	After	Sealed	Comment	Hole Depth	Hole Diameter	Casing Diameter	Depths (m)	Time (hhmm)	Tool
1.00m	0.98m	5min	-		3.00m	200mm	200mm	1.45 to 1.45	0100	Chisel
1.00m	0.90m	10min	-					2.50 to 2.65	0030	Chisel
1.00m	0.85m	15min	-							
1.00m	0.85m	20min	-							
1.65m	1.60m	5min	-							

Remarks: Borehole terminated on Engineer's (SKM) request. 50mm dia standpipe installed, response zone from 2.0m to 1.0m.	Shift Data:	Groundwater	Shift (dd/mm/yyyy)	Casing depth	Remarks
		-	13/01/2012	0.00m	Start of Borehole
		-	13/01/2012	1.80m	End of shift
		1.40m	16/01/2012	3.00m	Start of shift
		1.50m	16/01/2012	3.00m	End of Borehole

Equipment & Methods: Dando 2000

Project Name: Kerdiffstown Landfill	Project No.: P11114	Co-ords: 291681E - 221982N	Hole Type: Cable
Client: Environmental Protection Agency	Dates: 23/01/2012	Level: 80.93 m AOD	Scale: 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
							Reinforced concrete.		
		1.00	D		80.23	0.70	Grey, slightly sandy gravelly SILT with cobbles. Sand is fine to coarse. Gravel is fine to coarse, subrounded. 1.0m: CH4 - 0.1%, CO2 - 0.0%, O2 - 20.6%.		
		2.00	D						
		3.00	D				3.0m: CH4 - 0.1%, CO2 - 0.0%, O2 - 20.8%.		
		4.00	D		76.93	4.00	Stiff, grey, brown, slightly sandy gravelly SILT with cobbles. Sand is fine to coarse. Gravel is fine to coarse, subrounded. Cobbles are subrounded, limestone, 60-80mm dia.		
		5.00 5.00	CPT D	N=24 (2,3/5,6,6,7)	5.00				
		6.00	D						
		6.50	D		6.50	74.43	6.50		
							End of Borehole at 6.50 m		

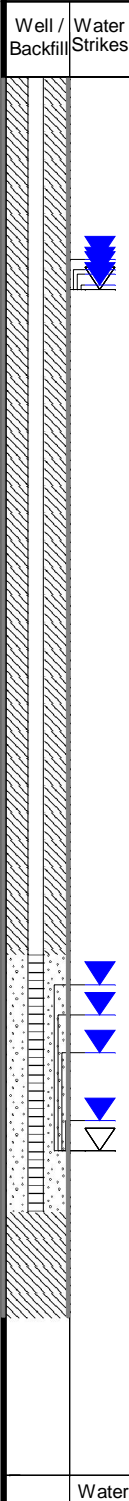
Water	Depth (m)	Type	Results	Casing	Level	Depth
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Groundwater:				Hole Information:			Chiselling:		
Struck	Rose to	After	Sealed	Hole Depth	Hole Diameter	Casing Diameter	Depths (m)	Time (hhmm)	Tool
-	-	-	-None encountered.	6.50m	200mm	200mm	3.30 to 3.40	0030	Chisel
							4.20 to 4.40	0030	Chisel
							5.60 to 5.70	0030	Chisel

Remarks: Breaking out: 4hrs. Borehole terminated on Engineer's (SKM) request. 50mm dia standpipe installed, response zone from 6.5m to 3.5m.	Shift Data:
	Groundwater
	Shift (dd/mm/yyyy) Casing depth
	- 23/01/2012 0.00m Start of Borehole
	- 23/01/2012 4.00m End of shift
	- 24/01/2012 4.00m Start of shift
	- 24/01/2012 6.50m End of Borehole

Equipment & Methods: Dando 2000
--

Project Name: Kerdiffstown Landfill	Project No. P11114	Co-ords: 291447E - 222033N	Hole Type Cable
Client: Environmental Protection Agency	Dates: 24/01/2012-25/01/2012	Level: 83.84 m AOD	Scale 1:50

Well / Backfill	Water Strikes	Samples & In Situ Testing			Casing / Flush	Level (m AOD)	Depth (m)	Stratum Description	Legend
		Depth (m)	Type	Results					
		0.00-1.00	B			82.84	1.00	Fill: Black, gravelly CLAY with cobbles. 0.0m - 1.0m: No water or odour noted.	1
		1.00-2.00	B			82.24	1.60	Fill: Black, gravelly CLAY.	
		2.00-3.00	B			81.84	2.00	MSW (Approx. 80% timber; logs and pallets, 10% rubber, 10% soft plastic, 10% hard plastic).	2
		3.40-4.40	B			80.44	3.40	CLAY with angular cobbles and MSW (Approx. 50% timber, 20% wooden pallets, 10% strong rubber, 10% plastic).	3
		3.40-4.40	B			79.44	4.40	Sandy GRAVEL with cobbles. 3.4m - 4.4m: No odour, no water.	4
		5.00-6.00	B					Sandy GRAVEL. 4.4m - 5.0m: No water or odour noted.	5
		6.00-7.00	B			76.84	7.00	Angular GRAVEL with black cobbles. 7.1m - 8.1m: No odour noted.	7
		7.00-8.00	B			8.20	75.64	8.20	8
								End of Borehole at 8.20 m	

Groundwater:					Hole Information:			Chiselling:		
Struck	Rose to	After	Sealed	Comment	Hole Depth	Hole Diameter	Casing Diameter	Depths (m)	Time (hhmm)	Tool
1.40m	1.37m	5min	-		8.20m	200mm	200mm	to		
1.40m	1.30m	10min	-							
1.40m	1.27m	15min	-							
1.40m	1.20m	20min	-							
7.10m	6.90m	5min	-							

Remarks: Borehole terminated on Engineer's (SKM) request. Backfilled with arisings. 50mm dia standpipe installed, response zone from 7.5m to 5.8m.	Shift Data:	Groundwater	Shift (dd/mm/yyyy)	Casing depth	Remarks
		-	24/01/2012	0.00m	Start of Borehole
		1.20m	24/01/2012	1.60m	End of shift
		-	25/01/2012	1.60m	Start of shift
		-	25/01/2012	8.20m	End of Borehole

Equipment & Methods: Dando 2000

Appendix D. Laboratory Reports

ALS Environmental Ltd
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Coventry
CV4 9GU

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Mr Downes
SKM Ireland c/o Jacobs
Engineering Ireland
Jacobs
Merrion House
Merrion Road
Dublin 4 South Dublin

06 January 2017

Test Report: COV/1343093/2016

Dear Mr Downes

Analysis of your sample(s) submitted on 07 December 2016 is now complete and we have pleasure in enclosing the appropriate test report(s).

An invoice for the analysis carried out will be sent under separate cover.

Should you have any queries regarding this report(s) or any part of our service, please contact Customer Services on +44 (0)24 7642 1213 who will be happy to discuss your requirements.

If you would like to arrange any further analysis, please contact Customer Services. To arrange container delivery or sample collection, please call the Couriers Department directly on 024 7685 6562.

Thank you for using ALS Environmental Ltd and we look forward to receiving your next samples.

Yours Sincerely,

Signed:

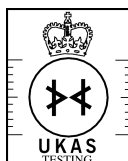


Name: A. Zunzunegui

Title: Organic Team Leader



Report Summary



1314
0897
4409



Mr Ultan Downes
SKM Ireland c/o Jacobs
Engineering Ireland
Jacobs
Merrion House
Merrion Road
Dublin 4
South Dublin

Date of Issue: **06 January 2017**

Report Number: **COV/1343093/2016**

Issue **2**

Job Description: Kerdiffstown Landfill

Job Location: 32EW5604 KLRP

Number of Samples
included in this report **3**

Job Received: **07 December 2016**

Number of Test Results
included in this report **840**

Analysis Commenced: **08 December 2016**

Signed:

Name: **A. Zunzunegui**

Date: **06 January 2017**

Title: **Organic Team Leader**

ALS Environmental Ltd was not responsible for sampling unless otherwise stated. Sampling is not covered by our UKAS accreditation.

Information on the methods of analysis and performance characteristics are available on request.

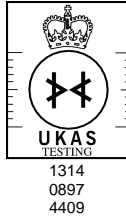
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. The results relate only to the items tested.

Tests marked 'Not UKAS Accredited' in this Report/Certificate are not included in the UKAS Accreditation Schedule for our laboratory.

This communication has been sent to you by ALS Environmental Ltd. Registered in England and Wales. Registration No. 02148934. Registered Office: ALS Environmental Limited, Torrington Avenue, Coventry, CV4 9GU.

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Certificate of Analysis



Report Number: **COV/1343093/2016**

Issue **2**

Laboratory Number: **15734479**

Sample **1** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW11**

Sample Matrix: **Ground Water**

Sample Date/Time: **07 December 2016**

Sample Received: **07 December 2016**

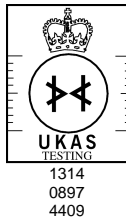
Analysis Complete: **06 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	<0.5	mg/l	21/12/2016	N Cov	WAS043
Nitrate as NO3	71.3	mg/l	09/12/2016	N Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	19/12/2016	Y Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	19/12/2016	Y Cov	WAS060
Arsenic, Ultra Low Total as As	<0.0010	mg/l	19/12/2016	Y Cov	WAS060
Fluoride	<0.200	mg/l	16/12/2016	Y S	SUBCON
Aluminium, Total as Al	0.2	mg/l	20/12/2016	Y Cov	WAS049
Barium, Total as Ba	0.035	mg/l	20/12/2016	Y Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	20/12/2016	Y Cov	WAS049
Boron, Total as B	1.09	mg/l	20/12/2016	Y Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	20/12/2016	Y Cov	WAS049
Calcium , Total as Ca	360	mg/l	20/12/2016	Y Cov	WAS049
Chromium , Total as Cr	0.004	mg/l	20/12/2016	Y Cov	WAS049
Copper, Ultra-low Total as Cu	5.8	ug/l	19/12/2016	Y Cov	WAS060
Iron , Total as Fe	0.66	mg/l	20/12/2016	Y Cov	WAS049
Ferrous Iron	<0.5	mg/l	21/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	21/12/2016	N Cov	WAS043
Lead , Total as Pb	<0.006	mg/l	20/12/2016	Y Cov	WAS049
Magnesium, Total as Mg	61.7	mg/l	20/12/2016	Y Cov	WAS049
Manganese , Total as Mn	0.059	mg/l	20/12/2016	Y Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	16/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.027	mg/l	20/12/2016	Y Cov	WAS049
Potassium , Total as K	44.1	mg/l	20/12/2016	Y Cov	WAS049
Sodium , Total as Na	74.8	mg/l	20/12/2016	Y Cov	WAS049
Vanadium , Total as V	<0.004	mg/l	20/12/2016	Y Cov	WAS049
Zinc, Total as Zn	0.03	mg/l	20/12/2016	Y Cov	WAS049
pH	7.1	pH units	12/12/2016	Y Cov	WAS039
Conductivity- Electrical 20C	2160	uS/cm	12/12/2016	Y Cov	WAS039
Alkalinity as CaCO3	538	mg/l	12/12/2016	Y Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	08/12/2016	Y Cov	WAS067
Chloride as Cl	51.7	mg/l	09/12/2016	N Cov	WAS036
Nitrite as N	<0.08	mg/l	09/12/2016	N Cov	WAS036

ALS Environmental Ltd

Torrington Avenue, Coventry, CV4 9GU
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Certificate of Analysis



Report Number: **COV/1343093/2016**

Issue **2**

Laboratory Number: **15734479**

Sample **1** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW11**

Sample Matrix: **Ground Water**

Sample Date/Time: **07 December 2016**

Sample Received: **07 December 2016**

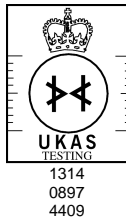
Analysis Complete: **06 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Phosphates , Total as P	<0.120	mg/l	20/12/2016	Y Cov	WAS049
Sulphate as SO4	805	mg/l	09/12/2016	N Cov	WAS036
BOD + ATU (5 day)	2	mg/l	19/12/2016	Y Cov	WAS001
COD (Total)	56.0	mg/l	12/12/2016	Y Cov	WAS040
TOC (Filtered)	10.6	mg/l	09/12/2016	Y Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	09/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	10/12/2016	N Cov	WAS018
Sulphide as S	<0.020	mg/l	21/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	08/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	29/12/2016	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	29/12/2016	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	29/12/2016	N Cov	GEO47
SVOC with TICs	Y	ug/l	15/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	29/12/2016	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	29/12/2016	Y Cov	GEO47
alpha-HCH	<3	ng/l	29/12/2016	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	29/12/2016	Y Cov	GEO47
beta-HCH	<3	ng/l	29/12/2016	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	29/12/2016	Y Cov	GEO47
Dichlobenil	<2	ng/l	29/12/2016	Y Cov	GEO47
Dieldrin	<4	ng/l	29/12/2016	Y Cov	GEO47
Endrin	<4	ng/l	29/12/2016	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	29/12/2016	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	29/12/2016	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	29/12/2016	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	29/12/2016	N Cov	GEO47
Isodrin	<4	ng/l	29/12/2016	Y Cov	GEO47
o,p - DDE	<2	ng/l	29/12/2016	Y Cov	GEO47
p,p - DDE	<2	ng/l	29/12/2016	Y Cov	GEO47
o,p - TDE	<2	ng/l	29/12/2016	Y Cov	GEO47
p,p - TDE	<2	ng/l	29/12/2016	Y Cov	GEO47
o,p - DDT	<2	ng/l	29/12/2016	Y Cov	GEO47
p,p - DDT	<4	ng/l	29/12/2016	Y Cov	GEO47

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Report Number: **COV/1343093/2016**

Issue **2**

Laboratory Number: **15734479**

Sample **1** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW11**

Sample Matrix: **Ground Water**

Sample Date/Time: **07 December 2016**

Sample Received: **07 December 2016**

Analysis Complete: **06 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Tecnazene	<10	ng/l	29/12/2016	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	29/12/2016	Y Cov	GEO47
Triallate	<10	ng/l	29/12/2016	Y Cov	GEO47
Trifluralin	<30	ng/l	29/12/2016	Y Cov	GEO47
Azinphos-ethyl	<0.004	ug/l	05/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	05/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	29/12/2016	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	29/12/2016	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	29/12/2016	Y Cov	GEO47
Diazinon	<0.003	ug/l	29/12/2016	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	29/12/2016	Y Cov	GEO47
Dimethoate	<0.020	ug/l	29/12/2016	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	29/12/2016	Y Cov	GEO47
Fenthion	<0.002	ug/l	29/12/2016	Y Cov	GEO47
Malathion	<0.004	ug/l	29/12/2016	Y Cov	GEO47
Mevinphos	<0.020	ug/l	29/12/2016	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	29/12/2016	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	29/12/2016	Y Cov	GEO47
Phorate	<0.004	ug/l	29/12/2016	Y Cov	GEO47
Phosalone	<0.004	ug/l	29/12/2016	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	29/12/2016	Y Cov	GEO47
Propetamphos	<0.003	ug/l	29/12/2016	Y Cov	GEO47
Triazophos	<0.002	ug/l	29/12/2016	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	20/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	20/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	20/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	20/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	20/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	20/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	20/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	20/12/2016	Y Cov	GEO20
Dicamba	<0.05	ug/l	20/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	20/12/2016	Y Cov	GEO20

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Laboratory Number: **15734479**

Sample **1** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW11**

Sample Matrix: **Ground Water**

Sample Date/Time: **07 December 2016**

Sample Received: **07 December 2016**

Analysis Complete: **06 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fenoprop	<0.05	ug/l	20/12/2016	Y Cov	GEO20
loxynil	<0.05	ug/l	20/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	20/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	20/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	20/12/2016	Y Cov	GEO20
Mecoprop	<0.04	ug/l	20/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	12/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	12/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	12/12/2016	N Cov	338
Naphthol	<0.10	ug/l	12/12/2016	N Cov	338
Phenol	<0.10	ug/l	12/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	12/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	12/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	13/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	13/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	13/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	13/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	13/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	13/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	13/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	13/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	13/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	13/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	13/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	13/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	13/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	13/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	13/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	13/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	13/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	13/12/2016	N Cov	GEO46
Aromatic EPH >C35 - C44	<10	ug/l	13/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	13/12/2016	N Cov	GEO46

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Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW11**

Sample Matrix: **Ground Water**

Sample Date/Time: **07 December 2016**

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Analysis Complete: **06 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
EPH >C10 - C44	<10	ug/l	13/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	<10	ug/l	13/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	<10	ug/l	13/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	<10	ug/l	13/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Anthracene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Chrysene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Fluoranthene	0.016	ug/l	15/12/2016	Y Cov	GEO19
Fluorene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Naphthalene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Phenanthrene	0.014	ug/l	15/12/2016	Y Cov	GEO19
Pyrene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
PAH, Total	0.030	ug/l	15/12/2016	N Cov	GEO19
VOC	Y	ug/l	23/12/2016	N Cov	GEO32
Dichlorodifluoromethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Chloromethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Chloroethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Bromomethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Trichlorofluoromethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,1-Dichloroethene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Dichloromethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,1-Dichloroethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
cis-1,2-Dichloroethene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
2,2-Dichloropropane	<1.0	ug/l	23/12/2016	N Cov	GEO32
Chloroform	<1.0	ug/l	23/12/2016	Y Cov	GEO32

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Sample Point Description:

Sample Description: **EMW11**

Sample Matrix: **Ground Water**

Sample Date/Time: **07 December 2016**

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Test Description	Result	Units	Analysis Date	Accreditation	Method
Bromochloromethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,1,1-Trichloroethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,1-Dichloropropene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,2-Dichloroethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Benzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,2-Dichloropropane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Trichloroethene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Bromodichloromethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Dibromomethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
cis-1,3-Dichloropropene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Toluene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
trans-1,3-Dichloropropene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,1,2-Trichloroethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Carbon Tetrachloride	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Vinyl Chloride	<0.5	ug/l	23/12/2016	Y Cov	GEO32
1,3-Dichloropropane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Tetrachloroethene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Dibromochloromethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,2-Dibromoethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Chlorobenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,1,1,2-Tetrachloroethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Ethyl Benzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
m&p-Xylene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
o-Xylene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Styrene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Bromoform	<1.0	ug/l	23/12/2016	Y Cov	GEO32
trans-1,2-Dichloroethene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Isopropylbenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,1,2,2-Tetrachloroethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,2,3-Trichloropropane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
n-Propylbenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Bromobenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
2-Chlorotoluene	<1.0	ug/l	23/12/2016	Y Cov	GEO32

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Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW11**

Sample Matrix: **Ground Water**

Sample Date/Time: **07 December 2016**

Sample Received: **07 December 2016**

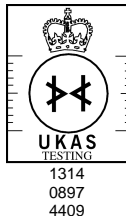
Analysis Complete: **06 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,3,5-Trimethylbenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
4-Chlorotoluene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
tert-Butylbenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,2,4-Trimethylbenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
sec-Butylbenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
p-Isopropyltoluene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,3-Dichlorobenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,4-Dichlorobenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
n-Butylbenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,2-Dichlorobenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,2-Dibromo-3-chloropropane	<2.0	ug/l	23/12/2016	Y Cov	GEO32
1,2,4-Trichlorobenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Hexachlorobutadiene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Naphthalene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,2,3-Trichlorobenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
MTBE	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Dibromofluoromethane	101.6	%Recovery	23/12/2016	N Cov	GEO32
Toluene-d8	99.4	%Recovery	23/12/2016	N Cov	GEO32
4-Bromofluorobenzene	85.5	%Recovery	23/12/2016	N Cov	GEO32
SVOC	Y	ug/l	14/12/2016	N Cov	GEO40
Phenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2-Chlorophenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2-Methylphenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
3&4-Methylphenol	<1.0	ug/l	14/12/2016	N Cov	GEO40
Dibenzofuran	<1.0	ug/l	14/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Bis(2-chloroisopropyl)ether	<1.0	ug/l	14/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Hexachloroethane	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Nitrobenzene	<1.0	ug/l	14/12/2016	Y Cov	GEO40

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Sample Matrix: **Ground Water**

Sample Date/Time: **07 December 2016**

Sample Received: **07 December 2016**

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Test Description	Result	Units	Analysis Date	Accreditation	Method
Isophorone	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2-Nitrophenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Naphthalene	<2.0	ug/l	14/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Dimethylphthalate	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Acenaphthylene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Acenaphthene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Diethylphthalate	<1.0	ug/l	14/12/2016	Y Cov	GEO40
4-Nitrophenol	<5.0	ug/l	14/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Fluorene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Diphenylamine	<1.0	ug/l	14/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Hexachlorobenzene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Pentachlorophenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Phenanthrene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Anthracene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Fluoranthene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Pyrene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<1.0	ug/l	14/12/2016	Y Cov	GEO40

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Sample Point Description:

Sample Description: **EMW11**

Sample Matrix: **Ground Water**

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Test Description	Result	Units	Analysis Date	Accreditation	Method
Chrysene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<5.0	ug/l	14/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2-Fluorophenol	88.7	%Recovery	14/12/2016	N Cov	GEO40
Phenol-d6	68.6	%Recovery	14/12/2016	N Cov	GEO40
Nitrobenzene-d5	84.4	%Recovery	14/12/2016	N Cov	GEO40
2-Fluorobiphenyl	84.3	%Recovery	14/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	88.6	%Recovery	14/12/2016	N Cov	GEO40
Terphenyl-d14	96.1	%Recovery	14/12/2016	N Cov	GEO40
Nitrite as NO2	<0.28	mg/l	09/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	20/12/2016	Y Cov	GEO20

Analyst Comments for 15734479:

This sample has been analysed for VOC Waters method GEO32, Pesticides method GEO47, BOD + ATU (5 day), Sodium Total as Na, Boron, Total as B outside recommended stability times. It is therefore possible that the results provided may be compromised. GEO40 SVOC Waters: See attached SVOC-TIC Report.

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **A. Zunzunegui**

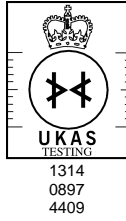
Date: **06 January 2017**

Title: **Organic Team Leader**

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Report Number: **COV/1343093/2016**

Issue **2**

Laboratory Number: **15734480**

Sample **2** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW12**

Sample Matrix: **Ground Water**

Sample Date/Time: **07 December 2016**

Sample Received: **07 December 2016**

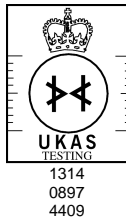
Analysis Complete: **06 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	<0.5	mg/l	21/12/2016	N Cov	WAS043
Nitrate as NO3	29.2	mg/l	09/12/2016	N Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	19/12/2016	Y Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	19/12/2016	Y Cov	WAS060
Arsenic, Ultra Low Total as As	<0.0010	mg/l	19/12/2016	Y Cov	WAS060
Fluoride	0.145	mg/l	16/12/2016	Y S	SUBCON
Aluminium, Total as Al	<0.1	mg/l	20/12/2016	Y Cov	WAS049
Barium, Total as Ba	0.049	mg/l	20/12/2016	Y Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	20/12/2016	Y Cov	WAS049
Boron, Total as B	<0.23	mg/l	20/12/2016	Y Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	20/12/2016	Y Cov	WAS049
Calcium , Total as Ca	195	mg/l	20/12/2016	Y Cov	WAS049
Chromium , Total as Cr	0.002	mg/l	20/12/2016	Y Cov	WAS049
Copper, Ultra-low Total as Cu	2.1	ug/l	19/12/2016	Y Cov	WAS060
Iron , Total as Fe	<0.23	mg/l	20/12/2016	Y Cov	WAS049
Ferrous Iron	<0.5	mg/l	21/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	21/12/2016	N Cov	WAS043
Lead , Total as Pb	<0.006	mg/l	20/12/2016	Y Cov	WAS049
Magnesium, Total as Mg	18.8	mg/l	20/12/2016	Y Cov	WAS049
Manganese , Total as Mn	0.007	mg/l	20/12/2016	Y Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	16/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.031	mg/l	20/12/2016	Y Cov	WAS049
Potassium , Total as K	4.47	mg/l	20/12/2016	Y Cov	WAS049
Sodium , Total as Na	23.2	mg/l	20/12/2016	Y Cov	WAS049
Vanadium , Total as V	<0.004	mg/l	20/12/2016	Y Cov	WAS049
Zinc, Total as Zn	0.03	mg/l	20/12/2016	Y Cov	WAS049
pH	7.3	pH units	12/12/2016	Y Cov	WAS039
Conductivity- Electrical 20C	1080	uS/cm	12/12/2016	Y Cov	WAS039
Alkalinity as CaCO3	272	mg/l	12/12/2016	Y Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	08/12/2016	Y Cov	WAS067
Chloride as Cl	31.0	mg/l	09/12/2016	N Cov	WAS036
Nitrite as N	<0.08	mg/l	09/12/2016	N Cov	WAS036

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 Laboratory Number: **15734480**

Issue **2**
 Sample **2** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW12**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **07 December 2016**
 Sample Received: **07 December 2016**
 Analysis Complete: **06 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Phosphates , Total as P	<0.120	mg/l	20/12/2016	Y Cov	WAS049
Sulphate as SO4	321	mg/l	09/12/2016	N Cov	WAS036
BOD + ATU (5 day)	<1	mg/l	19/12/2016	Y Cov	WAS001
COD (Total)	18.0	mg/l	12/12/2016	Y Cov	WAS040
TOC (Filtered)	2.4	mg/l	09/12/2016	Y Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	09/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	10/12/2016	N Cov	WAS018
Sulphide as S	<0.020	mg/l	21/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	08/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	29/12/2016	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	29/12/2016	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	29/12/2016	N Cov	GEO47
SVOC with TICs	Y	ug/l	15/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	29/12/2016	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	29/12/2016	Y Cov	GEO47
alpha-HCH	<3	ng/l	29/12/2016	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	29/12/2016	Y Cov	GEO47
beta-HCH	<3	ng/l	29/12/2016	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	29/12/2016	Y Cov	GEO47
Dichlobenil	<2	ng/l	29/12/2016	Y Cov	GEO47
Dieldrin	<4	ng/l	29/12/2016	Y Cov	GEO47
Endrin	<4	ng/l	29/12/2016	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	29/12/2016	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	29/12/2016	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	29/12/2016	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	29/12/2016	N Cov	GEO47
Isodrin	<4	ng/l	29/12/2016	Y Cov	GEO47
o,p - DDE	<2	ng/l	29/12/2016	Y Cov	GEO47
p,p - DDE	<2	ng/l	29/12/2016	Y Cov	GEO47
o,p - TDE	<2	ng/l	29/12/2016	Y Cov	GEO47
p,p - TDE	<2	ng/l	29/12/2016	Y Cov	GEO47
o,p - DDT	<2	ng/l	29/12/2016	Y Cov	GEO47
p,p - DDT	<4	ng/l	29/12/2016	Y Cov	GEO47

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Issue **2**

Laboratory Number: **15734480**

Sample **2** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW12**

Sample Matrix: **Ground Water**

Sample Date/Time: **07 December 2016**

Sample Received: **07 December 2016**

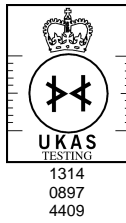
Analysis Complete: **06 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Tecnazene	<10	ng/l	29/12/2016	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	29/12/2016	Y Cov	GEO47
Triallate	<10	ng/l	29/12/2016	Y Cov	GEO47
Trifluralin	<30	ng/l	29/12/2016	Y Cov	GEO47
Azinphos-ethyl	<0.004	ug/l	05/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	05/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	29/12/2016	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	29/12/2016	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	29/12/2016	Y Cov	GEO47
Diazinon	<0.003	ug/l	29/12/2016	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	29/12/2016	Y Cov	GEO47
Dimethoate	<0.020	ug/l	29/12/2016	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	29/12/2016	Y Cov	GEO47
Fenthion	<0.002	ug/l	29/12/2016	Y Cov	GEO47
Malathion	<0.004	ug/l	29/12/2016	Y Cov	GEO47
Mevinphos	<0.020	ug/l	29/12/2016	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	29/12/2016	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	29/12/2016	Y Cov	GEO47
Phorate	<0.004	ug/l	29/12/2016	Y Cov	GEO47
Phosalone	<0.004	ug/l	29/12/2016	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	29/12/2016	Y Cov	GEO47
Propetamphos	<0.003	ug/l	29/12/2016	Y Cov	GEO47
Triazophos	<0.002	ug/l	29/12/2016	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	20/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	20/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	20/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	20/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	20/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	20/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	20/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	20/12/2016	Y Cov	GEO20
Dicamba	<0.05	ug/l	20/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	20/12/2016	Y Cov	GEO20

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 Laboratory Number: **15734480**

Issue **2**
 Sample **2** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW12**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **07 December 2016**
 Sample Received: **07 December 2016**
 Analysis Complete: **06 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fenoprop	<0.05	ug/l	20/12/2016	Y Cov	GEO20
loxynil	<0.05	ug/l	20/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	20/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	20/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	20/12/2016	Y Cov	GEO20
Mecoprop	<0.04	ug/l	20/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	16/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Naphthol	<0.10	ug/l	16/12/2016	N Cov	338
Phenol	1.2	ug/l	16/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Phenols, Total	1.2	ug/l	16/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	13/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	13/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	13/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	13/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	13/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	13/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	13/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	13/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	13/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	13/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	13/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	13/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	13/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	13/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	13/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	13/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	13/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	13/12/2016	N Cov	GEO46
Aromatic EPH >C35 - C44	<10	ug/l	13/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	13/12/2016	N Cov	GEO46

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Issue **2**

Laboratory Number: **15734480**

Sample **2** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW12**

Sample Matrix: **Ground Water**

Sample Date/Time: **07 December 2016**

Sample Received: **07 December 2016**

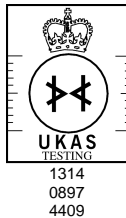
Analysis Complete: **06 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
EPH >C10 - C44	<10	ug/l	13/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	<10	ug/l	13/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	<10	ug/l	13/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	<10	ug/l	13/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Anthracene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Chrysene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Fluoranthene	0.089	ug/l	15/12/2016	Y Cov	GEO19
Fluorene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Naphthalene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Phenanthrene	0.050	ug/l	15/12/2016	Y Cov	GEO19
Pyrene	0.033	ug/l	15/12/2016	Y Cov	GEO19
PAH, Total	0.173	ug/l	15/12/2016	N Cov	GEO19
VOC	Y	ug/l	23/12/2016	N Cov	GEO32
Dichlorodifluoromethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Chloromethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Chloroethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Bromomethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Trichlorofluoromethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,1-Dichloroethene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Dichloromethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,1-Dichloroethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
cis-1,2-Dichloroethene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
2,2-Dichloropropane	<1.0	ug/l	23/12/2016	N Cov	GEO32
Chloroform	<1.0	ug/l	23/12/2016	Y Cov	GEO32

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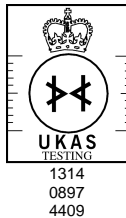
Analysis Complete: **06 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bromochloromethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,1,1-Trichloroethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,1-Dichloropropene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,2-Dichloroethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Benzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,2-Dichloropropane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Trichloroethene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Bromodichloromethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Dibromomethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
cis-1,3-Dichloropropene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Toluene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
trans-1,3-Dichloropropene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,1,2-Trichloroethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Carbon Tetrachloride	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Vinyl Chloride	<0.5	ug/l	23/12/2016	Y Cov	GEO32
1,3-Dichloropropane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Tetrachloroethene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Dibromochloromethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,2-Dibromoethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Chlorobenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,1,1,2-Tetrachloroethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Ethyl Benzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
m&p-Xylene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
o-Xylene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Styrene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Bromoform	<1.0	ug/l	23/12/2016	Y Cov	GEO32
trans-1,2-Dichloroethene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Isopropylbenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,1,2,2-Tetrachloroethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,2,3-Trichloropropane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
n-Propylbenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Bromobenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
2-Chlorotoluene	<1.0	ug/l	23/12/2016	Y Cov	GEO32

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Issue **2**
 Sample **2** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW12**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **07 December 2016**
 Sample Received: **07 December 2016**
 Analysis Complete: **06 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,3,5-Trimethylbenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
4-Chlorotoluene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
tert-Butylbenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,2,4-Trimethylbenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
sec-Butylbenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
p-Isopropyltoluene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,3-Dichlorobenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,4-Dichlorobenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
n-Butylbenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,2-Dichlorobenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,2-Dibromo-3-chloropropane	<2.0	ug/l	23/12/2016	Y Cov	GEO32
1,2,4-Trichlorobenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Hexachlorobutadiene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Naphthalene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,2,3-Trichlorobenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
MTBE	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Dibromofluoromethane	100.7	%Recovery	23/12/2016	N Cov	GEO32
Toluene-d8	91.9	%Recovery	23/12/2016	N Cov	GEO32
4-Bromofluorobenzene	92.6	%Recovery	23/12/2016	N Cov	GEO32
SVOC	Y	ug/l	14/12/2016	N Cov	GEO40
Phenol	2.5	ug/l	14/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2-Chlorophenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2-Methylphenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
3&4-Methylphenol	<1.0	ug/l	14/12/2016	N Cov	GEO40
Dibenzofuran	<1.0	ug/l	14/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Bis(2-chloroisopropyl)ether	<1.0	ug/l	14/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Hexachloroethane	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Nitrobenzene	<1.0	ug/l	14/12/2016	Y Cov	GEO40

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Report Number: **COV/1343093/2016**

Issue **2**

Laboratory Number: **15734480**

Sample **2** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW12**

Sample Matrix: **Ground Water**

Sample Date/Time: **07 December 2016**

Sample Received: **07 December 2016**

Analysis Complete: **06 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Isophorone	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2-Nitrophenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Naphthalene	<2.0	ug/l	14/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Dimethylphthalate	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Acenaphthylene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Acenaphthene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Diethylphthalate	<1.0	ug/l	14/12/2016	Y Cov	GEO40
4-Nitrophenol	<5.0	ug/l	14/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Fluorene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Diphenylamine	<1.0	ug/l	14/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Hexachlorobenzene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Pentachlorophenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Phenanthrene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Anthracene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Fluoranthene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Pyrene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<1.0	ug/l	14/12/2016	Y Cov	GEO40

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Issue **2**

Laboratory Number: **15734480**

Sample **2** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW12**

Sample Matrix: **Ground Water**

Sample Date/Time: **07 December 2016**

Sample Received: **07 December 2016**

Analysis Complete: **06 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chrysene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<5.0	ug/l	14/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2-Fluorophenol	89.4	%Recovery	14/12/2016	N Cov	GEO40
Phenol-d6	68.9	%Recovery	14/12/2016	N Cov	GEO40
Nitrobenzene-d5	85.3	%Recovery	14/12/2016	N Cov	GEO40
2-Fluorobiphenyl	86.3	%Recovery	14/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	84.7	%Recovery	14/12/2016	N Cov	GEO40
Terphenyl-d14	100.5	%Recovery	14/12/2016	N Cov	GEO40
Nitrite as NO2	<0.28	mg/l	09/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	20/12/2016	Y Cov	GEO20

Analyst Comments for 15734480:

This sample has been analysed for VOC Waters method GEO32, Pesticides method GEO47, BOD + ATU (5 day), Sodium Total as Na, Boron, Total as B outside recommended stability times. It is therefore possible that the results provided may be compromised. GEO40 SVOC Waters: See attached SVOC-TIC Report.

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **A. Zunzunegui**

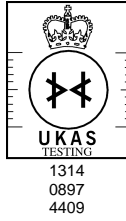
Date: **06 January 2017**

Title: **Organic Team Leader**

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Report Number: **COV/1343093/2016**

Issue **2**

Laboratory Number: **15734481**

Sample **3** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH26**

Sample Matrix: **Ground Water**

Sample Date/Time: **07 December 2016**

Sample Received: **07 December 2016**

Analysis Complete: **06 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	5.0	mg/l	21/12/2016	N Cov	WAS043
Nitrate as NO3	<3.1	mg/l	09/12/2016	N Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	19/12/2016	Y Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	19/12/2016	Y Cov	WAS060
Arsenic, Ultra Low Total as As	0.022	mg/l	19/12/2016	Y Cov	WAS060
Fluoride	0.243	mg/l	16/12/2016	Y S	SUBCON
Aluminium, Total as Al	0.5	mg/l	20/12/2016	Y Cov	WAS049
Barium, Total as Ba	0.698	mg/l	20/12/2016	Y Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	20/12/2016	Y Cov	WAS049
Boron, Total as B	2.46	mg/l	20/12/2016	Y Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	20/12/2016	Y Cov	WAS049
Calcium , Total as Ca	158	mg/l	20/12/2016	Y Cov	WAS049
Chromium , Total as Cr	0.006	mg/l	20/12/2016	Y Cov	WAS049
Copper, Ultra-low Total as Cu	13	ug/l	19/12/2016	Y Cov	WAS060
Iron , Total as Fe	5.42	mg/l	20/12/2016	Y Cov	WAS049
Ferrous Iron	3.5	mg/l	21/12/2016	N Cov	WAS043
Ferric Iron	1.4	mg/l	21/12/2016	N Cov	WAS043
Lead , Total as Pb	0.009	mg/l	20/12/2016	Y Cov	WAS049
Magnesium, Total as Mg	34.2	mg/l	20/12/2016	Y Cov	WAS049
Manganese , Total as Mn	1.78	mg/l	20/12/2016	Y Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	16/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.079	mg/l	20/12/2016	Y Cov	WAS049
Potassium , Total as K	53.6	mg/l	20/12/2016	Y Cov	WAS049
Sodium , Total as Na	306	mg/l	20/12/2016	Y Cov	WAS049
Vanadium , Total as V	<0.004	mg/l	20/12/2016	Y Cov	WAS049
Zinc, Total as Zn	0.06	mg/l	20/12/2016	Y Cov	WAS049
pH	6.9	pH units	12/12/2016	Y Cov	WAS039
Conductivity- Electrical 20C	3430	uS/cm	12/12/2016	Y Cov	WAS039
Alkalinity as CaCO3	1410	mg/l	12/12/2016	Y Cov	WAS025
Ammoniacal Nitrogen as N	129	mg/l	09/12/2016	N Cov	WAS036
Chloride as Cl	412	mg/l	09/12/2016	N Cov	WAS036
Nitrite as N	<0.08	mg/l	09/12/2016	N Cov	WAS036

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Report Number: **COV/1343093/2016**

Issue **2**

Laboratory Number: **15734481**

Sample **3** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH26**

Sample Matrix: **Ground Water**

Sample Date/Time: **07 December 2016**

Sample Received: **07 December 2016**

Analysis Complete: **06 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Phosphates , Total as P	0.25	mg/l	20/12/2016	Y Cov	WAS049
Sulphate as SO4	23.3	mg/l	09/12/2016	N Cov	WAS036
BOD + ATU (5 day)	10	mg/l	19/12/2016	Y Cov	WAS001
COD (Total)	458	mg/l	12/12/2016	Y Cov	WAS040
TOC (Filtered)	103	mg/l	09/12/2016	Y Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	09/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	10/12/2016	N Cov	WAS018
Sulphide as S	0.026	mg/l	21/12/2016	N Cov	WAS033
Formaldehyde	0.103	mg/l	08/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	30/12/2016	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	30/12/2016	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	30/12/2016	N Cov	GEO47
SVOC with TICs	Y	ug/l	15/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	30/12/2016	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	30/12/2016	Y Cov	GEO47
alpha-HCH	<3	ng/l	30/12/2016	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	30/12/2016	Y Cov	GEO47
beta-HCH	<3	ng/l	30/12/2016	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	30/12/2016	Y Cov	GEO47
Dichlobenil	4	ng/l	30/12/2016	Y Cov	GEO47
Dieldrin	<4	ng/l	30/12/2016	Y Cov	GEO47
Endrin	<4	ng/l	30/12/2016	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	30/12/2016	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	30/12/2016	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	30/12/2016	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	30/12/2016	N Cov	GEO47
Isodrin	<4	ng/l	30/12/2016	Y Cov	GEO47
o,p - DDE	<2	ng/l	30/12/2016	Y Cov	GEO47
p,p - DDE	<2	ng/l	30/12/2016	Y Cov	GEO47
o,p - TDE	<2	ng/l	30/12/2016	Y Cov	GEO47
p,p - TDE	<2	ng/l	30/12/2016	Y Cov	GEO47
o,p - DDT	<2	ng/l	30/12/2016	Y Cov	GEO47
p,p - DDT	<4	ng/l	30/12/2016	Y Cov	GEO47

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Report Number: **COV/1343093/2016**

Issue **2**

Laboratory Number: **15734481**

Sample **3** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH26**

Sample Matrix: **Ground Water**

Sample Date/Time: **07 December 2016**

Sample Received: **07 December 2016**

Analysis Complete: **06 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Tecnazene	<10	ng/l	30/12/2016	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	30/12/2016	Y Cov	GEO47
Triallate	<10	ng/l	30/12/2016	Y Cov	GEO47
Trifluralin	<30	ng/l	30/12/2016	Y Cov	GEO47
Azinphos-ethyl	<0.004	ug/l	05/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	30/12/2016	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	30/12/2016	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	30/12/2016	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	30/12/2016	Y Cov	GEO47
Diazinon	<0.003	ug/l	30/12/2016	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	30/12/2016	Y Cov	GEO47
Dimethoate	<0.020	ug/l	30/12/2016	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	30/12/2016	Y Cov	GEO47
Fenthion	<0.002	ug/l	30/12/2016	Y Cov	GEO47
Malathion	<0.004	ug/l	30/12/2016	Y Cov	GEO47
Mevinphos	<0.020	ug/l	30/12/2016	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	30/12/2016	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	30/12/2016	Y Cov	GEO47
Phorate	<0.004	ug/l	30/12/2016	Y Cov	GEO47
Phosalone	<0.004	ug/l	30/12/2016	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	30/12/2016	Y Cov	GEO47
Propetamphos	<0.003	ug/l	30/12/2016	Y Cov	GEO47
Triazophos	<0.002	ug/l	30/12/2016	Y Cov	GEO47
2,3,6 - TBA	<5.00	ug/l	23/12/2016	Y Cov	GEO20
2,4 - D	<5.00	ug/l	23/12/2016	Y Cov	GEO20
2,4 - DB	<5.00	ug/l	23/12/2016	Y Cov	GEO20
2,4,5 - T	<5.00	ug/l	23/12/2016	Y Cov	GEO20
Benazolin	<5.00	ug/l	23/12/2016	Y Cov	GEO20
Bentazone	<5.00	ug/l	23/12/2016	Y Cov	GEO20
Chlopyralid	<5.00	ug/l	23/12/2016	Y Cov	GEO20
Bromoxynil	<5.00	ug/l	23/12/2016	Y Cov	GEO20
Dicamba	<5.00	ug/l	23/12/2016	Y Cov	GEO20
Dichlorprop	<5.00	ug/l	23/12/2016	Y Cov	GEO20

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Report Number: **COV/1343093/2016**

Issue **2**

Laboratory Number: **15734481**

Sample **3** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH26**

Sample Matrix: **Ground Water**

Sample Date/Time: **07 December 2016**

Sample Received: **07 December 2016**

Analysis Complete: **06 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fenoprop	<5.00	ug/l	23/12/2016	Y Cov	GEO20
loxynil	<5.00	ug/l	23/12/2016	Y Cov	GEO20
MCPA	<5.00	ug/l	23/12/2016	Y Cov	GEO20
MCPB	<5.00	ug/l	23/12/2016	Y Cov	GEO20
Triclopyr	<5.00	ug/l	23/12/2016	Y Cov	GEO20
Mecoprop	28.6	ug/l	23/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	16/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Xylenol, Total	12	ug/l	16/12/2016	N Cov	338
Naphthol	<0.10	ug/l	16/12/2016	N Cov	338
Phenol	2.2	ug/l	16/12/2016	N Cov	338
Trimethylphenol, Total	22	ug/l	16/12/2016	N Cov	338
Phenols, Total	36	ug/l	19/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
VPH >C5 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<20	ug/l	13/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<20	ug/l	13/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<20	ug/l	13/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<20	ug/l	13/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<20	ug/l	13/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<20	ug/l	13/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<20	ug/l	13/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<20	ug/l	13/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<20	ug/l	13/12/2016	N Cov	GEO46
Aromatic EPH >C35 - C44	<20	ug/l	13/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<20	ug/l	13/12/2016	N Cov	GEO46

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Report Number: **COV/1343093/2016**
 Laboratory Number: **15734481**

Issue **2**
 Sample **3** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **BH26**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **07 December 2016**
 Sample Received: **07 December 2016**
 Analysis Complete: **06 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
EPH >C10 - C44	<20	ug/l	13/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	Analyst Com	ug/l	15/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	Analyst Com	ug/l	15/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	Analyst Com	ug/l	15/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.04	ug/l	15/12/2016	Y Cov	GEO19
Acenaphthylene	<0.04	ug/l	15/12/2016	Y Cov	GEO19
Anthracene	<0.04	ug/l	15/12/2016	Y Cov	GEO19
Benzo (a) anthracene	<0.04	ug/l	15/12/2016	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.04	ug/l	15/12/2016	Y Cov	GEO19
Benzo (a) pyrene	<0.04	ug/l	15/12/2016	Y Cov	GEO19
Benzo (b) fluoranthene	<0.04	ug/l	15/12/2016	Y Cov	GEO19
Benzo (k) fluoranthene	<0.04	ug/l	15/12/2016	Y Cov	GEO19
Chrysene	<0.04	ug/l	15/12/2016	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.04	ug/l	15/12/2016	Y Cov	GEO19
Fluoranthene	<0.04	ug/l	15/12/2016	Y Cov	GEO19
Fluorene	<0.04	ug/l	15/12/2016	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.04	ug/l	15/12/2016	Y Cov	GEO19
Naphthalene	<0.04	ug/l	15/12/2016	Y Cov	GEO19
Phenanthrene	<0.04	ug/l	15/12/2016	Y Cov	GEO19
Pyrene	<0.04	ug/l	15/12/2016	Y Cov	GEO19
PAH, Total	<0.04	ug/l	15/12/2016	N Cov	GEO19
VOC	Y	ug/l	23/12/2016	N Cov	GEO32
Dichlorodifluoromethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Chloromethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Chloroethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Bromomethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Trichlorofluoromethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,1-Dichloroethene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Dichloromethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,1-Dichloroethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
cis-1,2-Dichloroethene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
2,2-Dichloropropane	<1.0	ug/l	23/12/2016	N Cov	GEO32
Chloroform	<1.0	ug/l	23/12/2016	Y Cov	GEO32

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Certificate of Analysis



Report Number: **COV/1343093/2016**

Issue **2**

Laboratory Number: **15734481**

Sample **3** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH26**

Sample Matrix: **Ground Water**

Sample Date/Time: **07 December 2016**

Sample Received: **07 December 2016**

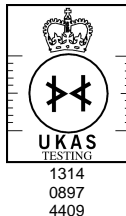
Analysis Complete: **06 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bromochloromethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,1,1-Trichloroethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,1-Dichloropropene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,2-Dichloroethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Benzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,2-Dichloropropane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Trichloroethene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Bromodichloromethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Dibromomethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
cis-1,3-Dichloropropene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Toluene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
trans-1,3-Dichloropropene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,1,2-Trichloroethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Carbon Tetrachloride	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Vinyl Chloride	<0.5	ug/l	23/12/2016	Y Cov	GEO32
1,3-Dichloropropane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Tetrachloroethene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Dibromochloromethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,2-Dibromoethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Chlorobenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,1,1,2-Tetrachloroethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Ethyl Benzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
m&p-Xylene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
o-Xylene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Styrene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Bromoform	<1.0	ug/l	23/12/2016	Y Cov	GEO32
trans-1,2-Dichloroethene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Isopropylbenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,1,2,2-Tetrachloroethane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,2,3-Trichloropropane	<1.0	ug/l	23/12/2016	Y Cov	GEO32
n-Propylbenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Bromobenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
2-Chlorotoluene	<1.0	ug/l	23/12/2016	Y Cov	GEO32

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Report Number: **COV/1343093/2016**

Issue **2**

Laboratory Number: **15734481**

Sample **3** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH26**

Sample Matrix: **Ground Water**

Sample Date/Time: **07 December 2016**

Sample Received: **07 December 2016**

Analysis Complete: **06 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,3,5-Trimethylbenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
4-Chlorotoluene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
tert-Butylbenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,2,4-Trimethylbenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
sec-Butylbenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
p-Isopropyltoluene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,3-Dichlorobenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,4-Dichlorobenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
n-Butylbenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,2-Dichlorobenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,2-Dibromo-3-chloropropane	<2.0	ug/l	23/12/2016	Y Cov	GEO32
1,2,4-Trichlorobenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Hexachlorobutadiene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Naphthalene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
1,2,3-Trichlorobenzene	<1.0	ug/l	23/12/2016	Y Cov	GEO32
MTBE	<1.0	ug/l	23/12/2016	Y Cov	GEO32
Dibromofluoromethane	100.0	%Recovery	23/12/2016	N Cov	GEO32
Toluene-d8	102.4	%Recovery	23/12/2016	N Cov	GEO32
4-Bromofluorobenzene	97.2	%Recovery	23/12/2016	N Cov	GEO32
SVOC	Y	ug/l	14/12/2016	N Cov	GEO40
Phenol	<2.0	ug/l	14/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<2.0	ug/l	14/12/2016	Y Cov	GEO40
2-Chlorophenol	<2.0	ug/l	14/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<2.0	ug/l	14/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<2.0	ug/l	14/12/2016	Y Cov	GEO40
2-Methylphenol	<2.0	ug/l	14/12/2016	Y Cov	GEO40
3&4-Methylphenol	<2.0	ug/l	14/12/2016	N Cov	GEO40
Dibenzofuran	<2.0	ug/l	14/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<2.0	ug/l	14/12/2016	Y Cov	GEO40
Bis(2-chloroisopropyl)ether	<2.0	ug/l	14/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<2.0	ug/l	14/12/2016	Y Cov	GEO40
Hexachloroethane	<2.0	ug/l	14/12/2016	Y Cov	GEO40
Nitrobenzene	<2.0	ug/l	14/12/2016	Y Cov	GEO40

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Report Number: **COV/1343093/2016**

Issue **2**

Laboratory Number: **15734481**

Sample **3** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH26**

Sample Matrix: **Ground Water**

Sample Date/Time: **07 December 2016**

Sample Received: **07 December 2016**

Analysis Complete: **06 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Isophorone	<2.0	ug/l	14/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<2.0	ug/l	14/12/2016	Y Cov	GEO40
2-Nitrophenol	<2.0	ug/l	14/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<2.0	ug/l	14/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<2.0	ug/l	14/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<2.0	ug/l	14/12/2016	Y Cov	GEO40
Naphthalene	<4.0	ug/l	14/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<2.0	ug/l	14/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<2.0	ug/l	14/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<2.0	ug/l	14/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<2.0	ug/l	14/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<2.0	ug/l	14/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<2.0	ug/l	14/12/2016	Y Cov	GEO40
Dimethylphthalate	<2.0	ug/l	14/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<2.0	ug/l	14/12/2016	Y Cov	GEO40
Acenaphthylene	<2.0	ug/l	14/12/2016	Y Cov	GEO40
Acenaphthene	<2.0	ug/l	14/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<2.0	ug/l	14/12/2016	Y Cov	GEO40
Diethylphthalate	<2.0	ug/l	14/12/2016	Y Cov	GEO40
4-Nitrophenol	<10.0	ug/l	14/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<2.0	ug/l	14/12/2016	Y Cov	GEO40
Fluorene	<2.0	ug/l	14/12/2016	Y Cov	GEO40
Diphenylamine	<2.0	ug/l	14/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<2.0	ug/l	14/12/2016	Y Cov	GEO40
Hexachlorobenzene	<2.0	ug/l	14/12/2016	Y Cov	GEO40
Pentachlorophenol	<2.0	ug/l	14/12/2016	Y Cov	GEO40
Phenanthrene	<2.0	ug/l	14/12/2016	Y Cov	GEO40
Anthracene	<2.0	ug/l	14/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<2.0	ug/l	14/12/2016	Y Cov	GEO40
Fluoranthene	<2.0	ug/l	14/12/2016	Y Cov	GEO40
Pyrene	<2.0	ug/l	14/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<2.0	ug/l	14/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<2.0	ug/l	14/12/2016	Y Cov	GEO40

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Report Number: **COV/1343093/2016**

Issue **2**

Laboratory Number: **15734481**

Sample **3** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH26**

Sample Matrix: **Ground Water**

Sample Date/Time: **07 December 2016**

Sample Received: **07 December 2016**

Analysis Complete: **06 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chrysene	<2.0	ug/l	14/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<10.0	ug/l	14/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<2.0	ug/l	14/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<2.0	ug/l	14/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<2.0	ug/l	14/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<2.0	ug/l	14/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<2.0	ug/l	14/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<2.0	ug/l	14/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<2.0	ug/l	14/12/2016	Y Cov	GEO40
2-Fluorophenol	89.1	%Recovery	14/12/2016	N Cov	GEO40
Phenol-d6	82.3	%Recovery	14/12/2016	N Cov	GEO40
Nitrobenzene-d5	85.5	%Recovery	14/12/2016	N Cov	GEO40
2-Fluorobiphenyl	84.6	%Recovery	14/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	102.3	%Recovery	14/12/2016	N Cov	GEO40
Terphenyl-d14	103.2	%Recovery	14/12/2016	N Cov	GEO40
Nitrite as NO2	<0.28	mg/l	09/12/2016	N Cov	WAS036
Fluoroxypyr	<5.00	ug/l	23/12/2016	Y Cov	GEO20

Analyst Comments for 15734481:

This sample has been analysed for VOC Waters method GEO32, Pesticides method GEO47, BOD + ATU (5 day), Sodium Total as Na, Boron, Total as B outside recommended stability times. It is therefore possible that the results provided may be compromised. Raised reporting limits for EPH Waters and PAH due to the nature of the sample matrix. GEO40 SVOC Waters: Reporting limits raised due to the nature of the sample matrix. See attached SVOC-TIC Report.

304 VPH Waters: Indicative results only due to AQC failure: HBD - 13ug/l, HBE - 13ug/l, HBF - <10ug/l, HCD - <10ug/l, HBG - 13ug/l, HBH - <10ug/l, HBJ - <10ug/l, HBK - <10ug/l, HBL - <10ug/l, 08D - <20ug/l, 08L - <20ug/l, 07H - <20ug/l. Low surrogate recover due to sample matrix interference.

Acid Herbicides reporting limits raised due to nature of sample matrix.

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is

<1000g (1g is approximately equivalent to 1ml for sample volume analysed).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **A. Zunzunegui**

Date: **06 January 2017**

Title: **Organic Team Leader**

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Mr Downes
SKM Ireland c/o Jacobs
Engineering Ireland
Jacobs
Merrion House
Merrion Road
Dublin 4 South Dublin

04 January 2017

Test Report: COV/1343597/2016

Dear Mr Downes

Analysis of your sample(s) submitted on 08 December 2016 is now complete and we have pleasure in enclosing the appropriate test report(s).

An invoice for the analysis carried out will be sent under separate cover.

Should you have any queries regarding this report(s) or any part of our service, please contact Customer Services on +44 (0)24 7642 1213 who will be happy to discuss your requirements.

If you would like to arrange any further analysis, please contact Customer Services. To arrange container delivery or sample collection, please call the Couriers Department directly on 024 7685 6562.

Thank you for using ALS Environmental Ltd and we look forward to receiving your next samples.

Yours Sincerely,

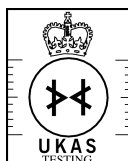
Signed: 

Name: C. Law

Title: Inorganics Operations Manager



Report Summary



1314
0897
4409



Mr Ultan Downes
SKM Ireland c/o Jacobs
Engineering Ireland
Jacobs
Merrion House
Merrion Road
Dublin 4
South Dublin

Date of Issue: **04 January 2017**

Report Number: **COV/1343597/2016**

Issue **2**

Job Description: Kerdiffstown Landfill

Number of Samples
included in this report **12**

Job Received: **08 December 2016**

Number of Test Results
included in this report **3300**

Analysis Commenced: **09 December 2016**

Signed:

Name: **C. Law**

Date: **04 January 2017**

Title: **Inorganics Operations Manager**

ALS Environmental Ltd was not responsible for sampling unless otherwise stated. Sampling is not covered by our UKAS accreditation.

Information on the methods of analysis and performance characteristics are available on request.

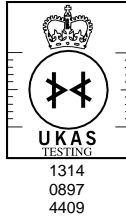
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. The results relate only to the items tested.

Tests marked 'Not UKAS Accredited' in this Report/Certificate are not included in the UKAS Accreditation Schedule for our laboratory.

This communication has been sent to you by ALS Environmental Ltd. Registered in England and Wales. Registration No. 02148934. Registered Office: ALS Environmental Limited, Torrington Avenue, Coventry, CV4 9GU.

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Certificate of Analysis



Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738162**

Sample **1** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW01**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	<0.5	mg/l	22/12/2016	N Cov	WAS043
Nitrate as NO3	13.9	mg/l	10/12/2016	Y Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	19/12/2016	N Cov	WAS060
Selenium Ultra Low Total as Se	0.0013	mg/l	19/12/2016	N Cov	WAS060
Arsenic, Ultra Low Total as As	<0.0010	mg/l	19/12/2016	N Cov	WAS060
Fluoride	0.114	mg/l	16/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Aluminium, Total as Al	<0.1	mg/l	21/12/2016	N Cov	WAS049
Barium, Total as Ba	0.074	mg/l	21/12/2016	N Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	21/12/2016	N Cov	WAS049
Boron, Total as B	<0.23	mg/l	21/12/2016	N Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	21/12/2016	N Cov	WAS049
Calcium , Total as Ca	108	mg/l	22/12/2016	N Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	21/12/2016	N Cov	WAS049
Copper, Ultra-low Total as Cu	<1.9	ug/l	19/12/2016	N Cov	WAS060
Iron , Total as Fe	<0.23	mg/l	21/12/2016	N Cov	WAS049
Ferrous Iron	<0.5	mg/l	22/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	22/12/2016	N Cov	WAS043
Lead , Total as Pb	<0.006	mg/l	21/12/2016	N Cov	WAS049
Magnesium, Total as Mg	12.5	mg/l	21/12/2016	N Cov	WAS049
Manganese , Total as Mn	<0.007	mg/l	21/12/2016	N Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	17/12/2016	N Cov	WAS013
Nickel, Total as Ni	<0.003	mg/l	21/12/2016	N Cov	WAS049
Potassium , Total as K	1.48	mg/l	21/12/2016	N Cov	WAS049
Sodium , Total as Na	15.0	mg/l	21/12/2016	N Cov	WAS049
Vanadium , Total as V	<0.004	mg/l	21/12/2016	N Cov	WAS049
Zinc, Total as Zn	<0.018	mg/l	21/12/2016	N Cov	WAS049
pH	8.2	pH units	12/12/2016	N Cov	WAS039
Conductivity- Electrical 20C	636	uS/cm	12/12/2016	N Cov	WAS039
Alkalinity as CaCO3	301	mg/l	12/12/2016	N Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	10/12/2016	N Cov	WAS067

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Certificate of Analysis



Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738162**

Sample **1** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW01**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	33.5	mg/l	10/12/2016	Y Cov	WAS036
Nitrite as N	<0.08	mg/l	10/12/2016	Y Cov	WAS036
Phosphates , Total as P	<0.120	mg/l	21/12/2016	N Cov	WAS049
Sulphate as SO4	11.6	mg/l	10/12/2016	Y Cov	WAS036
BOD + ATU (5 day)	<1	mg/l	19/12/2016	Y Cov	WAS001
COD (Total)	13.0	mg/l	12/12/2016	Y Cov	WAS040
TOC (Filtered)	1.3	mg/l	12/12/2016	N Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	15/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	10/12/2016	N Cov	WAS018
Sulphide as S	<0.020	mg/l	21/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	14/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	03/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	03/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	03/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	16/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	03/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	03/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	03/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	03/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	03/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	03/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	03/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	03/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	03/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	03/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	03/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	03/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	03/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	03/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	03/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	03/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	03/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	03/01/2017	Y Cov	GEO47

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738162**

Sample **1** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW01**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	03/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	03/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	03/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	03/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	03/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	03/01/2017	Y Cov	GEO47
Azinphos-ethyl	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	03/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	03/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	03/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	21/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	21/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	21/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	21/12/2016	Y Cov	GEO20

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Issue **2**

Laboratory Number: **15738162**

Sample **1** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW01**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	21/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	21/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Mecoprop	<0.04	ug/l	21/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	14/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Naphthol	<0.10	ug/l	14/12/2016	N Cov	338
Phenol	<0.10	ug/l	14/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	14/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	13/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	13/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	13/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	13/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	13/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	13/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	13/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	13/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	13/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	11	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	11	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	15/12/2016	N Cov	GEO46

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Sample **1** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW01**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
EPH >C10 - C44	11	ug/l	15/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	11	ug/l	15/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	<10	ug/l	15/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	11	ug/l	15/12/2016	N Cov	GEO45/GEO4
Acenaphthene	0.013	ug/l	15/12/2016	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Anthracene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Chrysene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Fluoranthene	0.041	ug/l	15/12/2016	Y Cov	GEO19
Fluorene	0.016	ug/l	15/12/2016	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Naphthalene	0.038	ug/l	15/12/2016	Y Cov	GEO19
Phenanthrene	0.033	ug/l	15/12/2016	Y Cov	GEO19
Pyrene	0.016	ug/l	15/12/2016	Y Cov	GEO19
PAH, Total	0.156	ug/l	15/12/2016	N Cov	GEO19
SVOC	Y	ug/l	14/12/2016	N Cov	GEO40
Phenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2-Chlorophenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2-Methylphenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
3&4-Methylphenol	<1.0	ug/l	14/12/2016	N Cov	GEO40
Dibenzofuran	<1.0	ug/l	14/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<1.0	ug/l	14/12/2016	Y Cov	GEO40

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Laboratory Number: **15738162**

Sample **1** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW01**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

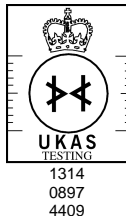
Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<1.0	ug/l	14/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Hexachloroethane	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Nitrobenzene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Isophorone	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2-Nitrophenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Naphthalene	<2.0	ug/l	14/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Dimethylphthalate	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Acenaphthylene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Acenaphthene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Diethylphthalate	<1.0	ug/l	14/12/2016	Y Cov	GEO40
4-Nitrophenol	<5.0	ug/l	14/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Fluorene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Diphenylamine	<1.0	ug/l	14/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Hexachlorobenzene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Pentachlorophenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Phenanthrene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Anthracene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<1.0	ug/l	14/12/2016	Y Cov	GEO40

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Issue **2**

Laboratory Number: **15738162**

Sample **1** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW01**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Pyrene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Chrysene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<5.0	ug/l	14/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2-Fluorophenol	88.5	%Recovery	14/12/2016	N Cov	GEO40
Phenol-d6	72.8	%Recovery	14/12/2016	N Cov	GEO40
Nitrobenzene-d5	81.6	%Recovery	14/12/2016	N Cov	GEO40
2-Fluorobiphenyl	82.1	%Recovery	14/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	80.6	%Recovery	14/12/2016	N Cov	GEO40
Terphenyl-d14	87.2	%Recovery	14/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	12/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	21/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Certificate of Analysis



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Issue **2**
 Sample **1** of **12**

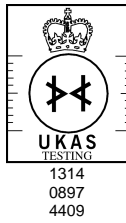
Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **SW01**
 Sample Matrix: **Surface Water**
 Sample Date/Time: **07 December 2016**
 Sample Received: **08 December 2016**
 Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Benzene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	29/12/2016	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Bromoform	<0.20	ug/l	29/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloroform	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	29/12/2016	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Naphthalene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Laboratory Number: **15738162**

Sample **1** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW01**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	29/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	29/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Toluene	<0.50	ug/l	29/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	29/12/2016	Y S	SUBCON

Analyst Comments for 15738162:

This sample has been analysed for Pesticides method GEO47, BOD + ATU (5 day), Sodium Total as Na, Boron, Total as B outside recommended stability times. It is therefore possible that the results provided may be compromised. GEO40 SVOC Waters: See attached SVOC-TIC Report.

{/*}The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis.{*/}

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **C. Law**

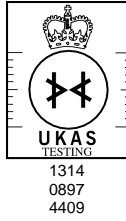
Date: **04 January 2017**

Title: **Inorganics Operations Manager**

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738163**

Sample **2** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW02**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	<0.5	mg/l	22/12/2016	N Cov	WAS043
Nitrate as NO3	12.6	mg/l	10/12/2016	Y Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	19/12/2016	N Cov	WAS060
Selenium Ultra Low Total as Se	0.0012	mg/l	19/12/2016	N Cov	WAS060
Arsenic, Ultra Low Total as As	<0.0010	mg/l	19/12/2016	N Cov	WAS060
Fluoride	<1.00	mg/l	29/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Aluminium, Total as Al	<0.1	mg/l	21/12/2016	N Cov	WAS049
Barium, Total as Ba	0.068	mg/l	21/12/2016	N Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	21/12/2016	N Cov	WAS049
Boron, Total as B	<0.23	mg/l	21/12/2016	N Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	21/12/2016	N Cov	WAS049
Calcium , Total as Ca	99.9	mg/l	21/12/2016	N Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	21/12/2016	N Cov	WAS049
Copper, Ultra-low Total as Cu	<1.9	ug/l	19/12/2016	N Cov	WAS060
Iron , Total as Fe	<0.23	mg/l	21/12/2016	N Cov	WAS049
Ferrous Iron	<0.5	mg/l	22/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	22/12/2016	N Cov	WAS043
Lead , Total as Pb	<0.006	mg/l	21/12/2016	N Cov	WAS049
Magnesium, Total as Mg	10.8	mg/l	21/12/2016	N Cov	WAS049
Manganese , Total as Mn	0.007	mg/l	21/12/2016	N Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	17/12/2016	N Cov	WAS013
Nickel, Total as Ni	<0.003	mg/l	21/12/2016	N Cov	WAS049
Potassium , Total as K	1.47	mg/l	21/12/2016	N Cov	WAS049
Sodium , Total as Na	9.30	mg/l	21/12/2016	N Cov	WAS049
Vanadium , Total as V	<0.004	mg/l	21/12/2016	N Cov	WAS049
Zinc, Total as Zn	<0.018	mg/l	21/12/2016	N Cov	WAS049
pH	8.2	pH units	12/12/2016	N Cov	WAS039
Conductivity- Electrical 20C	565	uS/cm	12/12/2016	N Cov	WAS039
Alkalinity as CaCO3	287	mg/l	12/12/2016	N Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	10/12/2016	N Cov	WAS067

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738163**

Sample **2** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW02**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	17.3	mg/l	10/12/2016	Y Cov	WAS036
Nitrite as N	<0.08	mg/l	10/12/2016	Y Cov	WAS036
Phosphates , Total as P	<0.120	mg/l	21/12/2016	N Cov	WAS049
Sulphate as SO4	11.6	mg/l	10/12/2016	Y Cov	WAS036
BOD + ATU (5 day)	<1	mg/l	19/12/2016	Y Cov	WAS001
COD (Total)	18.0	mg/l	14/12/2016	Y Cov	WAS040
TOC (Filtered)	1.1	mg/l	12/12/2016	N Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	15/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	10/12/2016	N Cov	WAS018
Sulphide as S	<0.020	mg/l	21/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	14/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	03/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	03/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	03/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	16/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	03/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	03/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	03/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	03/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	03/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	03/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	03/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	03/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	03/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	03/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	03/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	03/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	03/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	03/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	03/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	03/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	03/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	03/01/2017	Y Cov	GEO47

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738163**

Sample **2** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW02**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	03/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	03/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	03/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	03/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	03/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	03/01/2017	Y Cov	GEO47
Azinphos-ethyl	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	03/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	03/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	03/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	21/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	21/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	21/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	21/12/2016	Y Cov	GEO20

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Issue **2**

Laboratory Number: **15738163**

Sample **2** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW02**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	21/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	21/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Mecoprop	<0.04	ug/l	21/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	14/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Naphthol	<0.10	ug/l	14/12/2016	N Cov	338
Phenol	<0.10	ug/l	14/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	14/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	13/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	13/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	13/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	13/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	13/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	13/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	13/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	13/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	13/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	15/12/2016	N Cov	GEO46

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738163**

Sample **2** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW02**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

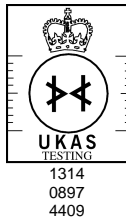
Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	<10	ug/l	15/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	<10	ug/l	15/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	<10	ug/l	15/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Anthracene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Chrysene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Fluoranthene	0.032	ug/l	15/12/2016	Y Cov	GEO19
Fluorene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Naphthalene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Phenanthrene	0.019	ug/l	15/12/2016	Y Cov	GEO19
Pyrene	0.014	ug/l	15/12/2016	Y Cov	GEO19
PAH, Total	0.064	ug/l	15/12/2016	N Cov	GEO19
SVOC	Y	ug/l	14/12/2016	N Cov	GEO40
Phenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2-Chlorophenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2-Methylphenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
3&4-Methylphenol	<1.0	ug/l	14/12/2016	N Cov	GEO40
Dibenzofuran	<1.0	ug/l	14/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<1.0	ug/l	14/12/2016	Y Cov	GEO40

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738163**

Sample **2** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW02**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<1.0	ug/l	14/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Hexachloroethane	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Nitrobenzene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Isophorone	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2-Nitrophenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Naphthalene	<2.0	ug/l	14/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Dimethylphthalate	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Acenaphthylene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Acenaphthene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Diethylphthalate	<1.0	ug/l	14/12/2016	Y Cov	GEO40
4-Nitrophenol	<5.0	ug/l	14/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Fluorene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Diphenylamine	<1.0	ug/l	14/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Hexachlorobenzene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Pentachlorophenol	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Phenanthrene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Anthracene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<1.0	ug/l	14/12/2016	Y Cov	GEO40

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Report Number: **COV/1343597/2016**
 Laboratory Number: **15738163**

Issue **2**
 Sample **2** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **SW02**
 Sample Matrix: **Surface Water**
 Sample Date/Time: **07 December 2016**
 Sample Received: **08 December 2016**
 Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Pyrene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Chrysene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<5.0	ug/l	14/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<1.0	ug/l	14/12/2016	Y Cov	GEO40
2-Fluorophenol	86.3	%Recovery	14/12/2016	N Cov	GEO40
Phenol-d6	67.2	%Recovery	14/12/2016	N Cov	GEO40
Nitrobenzene-d5	74.0	%Recovery	14/12/2016	N Cov	GEO40
2-Fluorobiphenyl	69.6	%Recovery	14/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	78.5	%Recovery	14/12/2016	N Cov	GEO40
Terphenyl-d14	81.8	%Recovery	14/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	12/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	21/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738163**

Sample **2** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW02**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

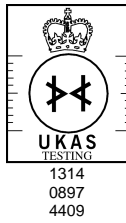
Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Benzene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	29/12/2016	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Bromoform	<0.20	ug/l	29/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloroform	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	29/12/2016	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Naphthalene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738163**

Sample **2** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW02**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	29/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	29/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Toluene	<0.50	ug/l	29/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	29/12/2016	Y S	SUBCON

Analyst Comments for 15738163:

This sample has been analysed for Pesticides method GEO47, BOD + ATU (5 day), Sodium Total as Na, Boron, Total as B outside recommended stability times. It is therefore possible that the results provided may be compromised. GEO40 SVOC Waters: See attached SVOC-TIC Report. {/*}The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis.{/*}

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG). For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **C. Law**

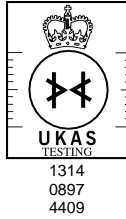
Date: **04 January 2017**

Title: **Inorganics Operations Manager**

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738164**

Sample **3** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW03**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	<0.5	mg/l	22/12/2016	N Cov	WAS043
Nitrate as NO3	12.9	mg/l	10/12/2016	Y Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	20/12/2016	N Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	20/12/2016	N Cov	WAS060
Arsenic, Ultra Low Total as As	<0.0010	mg/l	20/12/2016	N Cov	WAS060
Fluoride	0.107	mg/l	16/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Aluminium, Total as Al	<0.1	mg/l	21/12/2016	N Cov	WAS049
Barium, Total as Ba	0.069	mg/l	21/12/2016	N Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	21/12/2016	N Cov	WAS049
Boron, Total as B	<0.23	mg/l	21/12/2016	N Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	21/12/2016	N Cov	WAS049
Calcium , Total as Ca	99.5	mg/l	21/12/2016	N Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	21/12/2016	N Cov	WAS049
Copper, Ultra-low Total as Cu	<1.9	ug/l	20/12/2016	N Cov	WAS060
Iron , Total as Fe	<0.23	mg/l	21/12/2016	N Cov	WAS049
Ferrous Iron	<0.5	mg/l	22/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	22/12/2016	N Cov	WAS043
Lead , Total as Pb	<0.006	mg/l	21/12/2016	N Cov	WAS049
Magnesium, Total as Mg	10.9	mg/l	21/12/2016	N Cov	WAS049
Manganese , Total as Mn	0.010	mg/l	21/12/2016	N Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	17/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.010	mg/l	21/12/2016	N Cov	WAS049
Potassium , Total as K	1.61	mg/l	21/12/2016	N Cov	WAS049
Sodium , Total as Na	9.11	mg/l	21/12/2016	N Cov	WAS049
Vanadium , Total as V	<0.004	mg/l	21/12/2016	N Cov	WAS049
Zinc, Total as Zn	0.02	mg/l	21/12/2016	N Cov	WAS049
pH	8.2	pH units	12/12/2016	N Cov	WAS039
Conductivity- Electrical 20C	563	uS/cm	12/12/2016	N Cov	WAS039
Alkalinity as CaCO3	286	mg/l	12/12/2016	N Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	10/12/2016	N Cov	WAS067

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738164**

Sample **3** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW03**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	18.9	mg/l	10/12/2016	Y Cov	WAS036
Nitrite as N	<0.08	mg/l	10/12/2016	Y Cov	WAS036
Phosphates , Total as P	<0.120	mg/l	21/12/2016	N Cov	WAS049
Sulphate as SO4	11.6	mg/l	10/12/2016	Y Cov	WAS036
BOD + ATU (5 day)	<1	mg/l	19/12/2016	Y Cov	WAS001
COD (Total)	<11.0	mg/l	14/12/2016	Y Cov	WAS040
TOC (Filtered)	1.1	mg/l	12/12/2016	N Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	15/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	10/12/2016	N Cov	WAS018
Sulphide as S	<0.020	mg/l	21/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	14/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	03/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	03/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	03/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	16/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	03/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	03/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	03/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	03/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	03/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	03/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	03/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	03/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	03/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	03/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	03/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	03/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	03/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	03/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	03/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	03/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	03/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	03/01/2017	Y Cov	GEO47

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738164**

Sample **3** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW03**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	03/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	03/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	03/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	03/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	03/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	03/01/2017	Y Cov	GEO47
Azinphos-ethyl	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	03/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	03/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	03/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	21/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	21/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	21/12/2016	Y Cov	GEO20
2,4,5 - T	<5.00	ug/l	23/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	21/12/2016	Y Cov	GEO20

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738164**

Sample **3** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW03**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	21/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	21/12/2016	Y Cov	GEO20
MCPB	<5.00	ug/l	23/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Mecoprop	<0.04	ug/l	21/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	14/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Naphthol	<0.10	ug/l	14/12/2016	N Cov	338
Phenol	<0.10	ug/l	14/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	14/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	13/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	13/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	13/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	13/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	13/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	13/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	13/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	13/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	13/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	15/12/2016	N Cov	GEO46

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Report Number: **COV/1343597/2016**
 Laboratory Number: **15738164**

Issue **2**
 Sample **3** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **SW03**
 Sample Matrix: **Surface Water**
 Sample Date/Time: **07 December 2016**
 Sample Received: **08 December 2016**
 Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	<10	ug/l	15/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	<10	ug/l	15/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	<10	ug/l	15/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Anthracene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Chrysene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Fluoranthene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Fluorene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Naphthalene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Phenanthrene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Pyrene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
PAH, Total	<0.01	ug/l	15/12/2016	N Cov	GEO19
SVOC	Y	ug/l	15/12/2016	N Cov	GEO40
Phenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Chlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Methylphenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
3&4-Methylphenol	<4.0	ug/l	15/12/2016	N Cov	GEO40
Dibenzofuran	<4.0	ug/l	15/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738164**

Sample **3** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW03**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Hexachloroethane	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Nitrobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Isophorone	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Nitrophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Naphthalene	<8.0	ug/l	15/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Dimethylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Acenaphthylene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Acenaphthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Diethylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
4-Nitrophenol	<20.0	ug/l	15/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Fluorene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Diphenylamine	<4.0	ug/l	15/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Hexachlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Pentachlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Phenanthrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Anthracene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40

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Report Number: **COV/1343597/2016**
 Laboratory Number: **15738164**

Issue **2**
 Sample **3** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **SW03**
 Sample Matrix: **Surface Water**
 Sample Date/Time: **07 December 2016**
 Sample Received: **08 December 2016**
 Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Pyrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Chrysene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<20.0	ug/l	15/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Fluorophenol	103.0	%Recovery	15/12/2016	N Cov	GEO40
Phenol-d6	88.7	%Recovery	15/12/2016	N Cov	GEO40
Nitrobenzene-d5	89.2	%Recovery	15/12/2016	N Cov	GEO40
2-Fluorobiphenyl	89.5	%Recovery	15/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	68.8	%Recovery	15/12/2016	N Cov	GEO40
Terphenyl-d14	94.2	%Recovery	15/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	12/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	21/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738164**

Sample **3** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW03**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

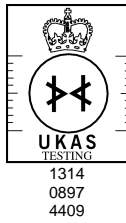
Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Benzene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	29/12/2016	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Bromoform	<0.20	ug/l	29/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloroform	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	29/12/2016	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Naphthalene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738164**

Sample **3** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW03**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	29/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	29/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Toluene	<0.50	ug/l	29/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	29/12/2016	Y S	SUBCON

Analyst Comments for 15738164:

This sample has been analysed for Pesticides method GEO47, BOD + ATU (5 day), Magnesium, Total as Mg, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba outside recommended stability times. It is therefore possible that the results provided may be compromised. GEO40 SVOC Waters: Raised reporting limits due to insufficient sample as repeat extraction performed due to an original extraction error therefore extraction performed on reduced volumes. See attached SVOC-TIC Report.
{/*}The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-feric ratio between sampling and analysis.{*/}
Acid Herbicides reporting limits raised due to nature of sample matrix.

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).
For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **C. Law**

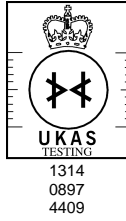
Date: **04 January 2017**

Title: **Inorganics Operations Manager**

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738165**

Sample **4** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW04**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	<0.5	mg/l	22/12/2016	N Cov	WAS043
Nitrate as NO3	12.9	mg/l	10/12/2016	Y Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	20/12/2016	N Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	20/12/2016	N Cov	WAS060
Arsenic, Ultra Low Total as As	<0.0010	mg/l	20/12/2016	N Cov	WAS060
Fluoride	0.116	mg/l	16/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Aluminium, Total as Al	<0.1	mg/l	21/12/2016	N Cov	WAS049
Barium, Total as Ba	0.069	mg/l	21/12/2016	N Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	21/12/2016	N Cov	WAS049
Boron, Total as B	<0.23	mg/l	21/12/2016	N Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	21/12/2016	N Cov	WAS049
Calcium , Total as Ca	101	mg/l	21/12/2016	N Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	21/12/2016	N Cov	WAS049
Copper, Ultra-low Total as Cu	<1.9	ug/l	20/12/2016	N Cov	WAS060
Iron , Total as Fe	<0.23	mg/l	21/12/2016	N Cov	WAS049
Ferrous Iron	<0.5	mg/l	22/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	22/12/2016	N Cov	WAS043
Lead , Total as Pb	<0.006	mg/l	21/12/2016	N Cov	WAS049
Magnesium, Total as Mg	10.9	mg/l	21/12/2016	N Cov	WAS049
Manganese , Total as Mn	0.008	mg/l	21/12/2016	N Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	17/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.005	mg/l	21/12/2016	N Cov	WAS049
Potassium , Total as K	1.45	mg/l	21/12/2016	N Cov	WAS049
Sodium , Total as Na	8.08	mg/l	21/12/2016	N Cov	WAS049
Vanadium , Total as V	<0.004	mg/l	21/12/2016	N Cov	WAS049
Zinc, Total as Zn	<0.018	mg/l	21/12/2016	N Cov	WAS049
pH	8.2	pH units	12/12/2016	N Cov	WAS039
Conductivity- Electrical 20C	564	uS/cm	12/12/2016	N Cov	WAS039
Alkalinity as CaCO3	286	mg/l	12/12/2016	N Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	10/12/2016	N Cov	WAS067

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738165**

Sample **4** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW04**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	18.3	mg/l	10/12/2016	Y Cov	WAS036
Nitrite as N	<0.08	mg/l	10/12/2016	Y Cov	WAS036
Phosphates , Total as P	<0.120	mg/l	21/12/2016	N Cov	WAS049
Sulphate as SO4	11.8	mg/l	10/12/2016	Y Cov	WAS036
BOD + ATU (5 day)	<1	mg/l	19/12/2016	Y Cov	WAS001
COD (Total)	<11.0	mg/l	13/12/2016	Y Cov	WAS040
TOC (Filtered)	1.1	mg/l	12/12/2016	N Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	15/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	10/12/2016	N Cov	WAS018
Sulphide as S	<0.020	mg/l	21/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	14/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	03/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	03/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	03/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	16/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	03/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	03/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	03/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	03/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	03/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	03/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	03/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	03/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	03/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	03/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	03/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	03/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	03/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	03/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	03/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	03/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	03/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	03/01/2017	Y Cov	GEO47

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738165**

Sample **4** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW04**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

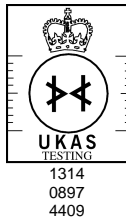
Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	03/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	03/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	03/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	03/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	03/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	03/01/2017	Y Cov	GEO47
Azinphos-ethyl	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	03/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	03/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	03/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	21/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	21/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	21/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	21/12/2016	Y Cov	GEO20

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738165**

Sample **4** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW04**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	21/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	21/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Mecoprop	<0.04	ug/l	21/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	14/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Naphthol	<0.10	ug/l	14/12/2016	N Cov	338
Phenol	<0.10	ug/l	14/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	14/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	13/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	13/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	13/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	13/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	13/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	13/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	13/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	13/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	13/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	15/12/2016	N Cov	GEO46

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738165**

Sample **4** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW04**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	<10	ug/l	15/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	<10	ug/l	15/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	<10	ug/l	15/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Anthracene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Chrysene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Fluoranthene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Fluorene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Naphthalene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Phenanthrene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Pyrene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
PAH, Total	<0.01	ug/l	15/12/2016	N Cov	GEO19
SVOC	Y	ug/l	15/12/2016	N Cov	GEO40
Phenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Chlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Methylphenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
3&4-Methylphenol	<4.0	ug/l	15/12/2016	N Cov	GEO40
Dibenzofuran	<4.0	ug/l	15/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738165**

Sample **4** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW04**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Hexachloroethane	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Nitrobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Isophorone	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Nitrophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Naphthalene	<8.0	ug/l	15/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Dimethylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Acenaphthylene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Acenaphthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Diethylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
4-Nitrophenol	<20.0	ug/l	15/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Fluorene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Diphenylamine	<4.0	ug/l	15/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Hexachlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Pentachlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Phenanthrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Anthracene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40

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Issue **2**

Laboratory Number: **15738165**

Sample **4** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW04**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Pyrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Chrysene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<20.0	ug/l	15/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Fluorophenol	103.4	%Recovery	15/12/2016	N Cov	GEO40
Phenol-d6	86.0	%Recovery	15/12/2016	N Cov	GEO40
Nitrobenzene-d5	80.1	%Recovery	15/12/2016	N Cov	GEO40
2-Fluorobiphenyl	76.9	%Recovery	15/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	75.6	%Recovery	15/12/2016	N Cov	GEO40
Terphenyl-d14	85.6	%Recovery	15/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	12/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	21/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Report Number: **COV/1343597/2016**
 Laboratory Number: **15738165**

Issue **2**
 Sample **4** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **SW04**
 Sample Matrix: **Surface Water**
 Sample Date/Time: **07 December 2016**
 Sample Received: **08 December 2016**
 Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Benzene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	29/12/2016	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Bromoform	0.82	ug/l	29/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloroform	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	29/12/2016	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Naphthalene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738165**

Sample **4** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW04**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**


Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	29/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	29/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Toluene	<0.50	ug/l	29/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	29/12/2016	Y S	SUBCON

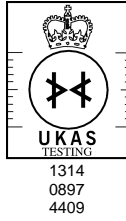
Analyst Comments for 15738165:

This sample has been analysed for Pesticides method GEO47, BOD + ATU (5 day), Magnesium, Total as Mg, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba outside recommended stability times. It is therefore possible that the results provided may be compromised. GEO40 SVOC Waters: Raised reporting limits due to insufficient sample as repeat extraction performed due to an original extraction error therefore extraction performed on reduced volumes. See attached SVOC-TIC Report.
{/}*}The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-feric ratio between sampling and analysis.{/}

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.
Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).
For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).
I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:  Name: **C. Law** Date: **04 January 2017**
Title: **Inorganics Operations Manager**

Certificate of Analysis



Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738166**

Sample **5** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW05**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	<0.5	mg/l	22/12/2016	N Cov	WAS043
Nitrate as NO3	12.7	mg/l	10/12/2016	Y Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	20/12/2016	N Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	20/12/2016	N Cov	WAS060
Arsenic, Ultra Low Total as As	<0.0010	mg/l	20/12/2016	N Cov	WAS060
Fluoride	0.067	mg/l	16/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Aluminium, Total as Al	<0.1	mg/l	21/12/2016	N Cov	WAS049
Barium, Total as Ba	0.067	mg/l	21/12/2016	N Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	21/12/2016	N Cov	WAS049
Boron, Total as B	<0.23	mg/l	21/12/2016	N Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	21/12/2016	N Cov	WAS049
Calcium , Total as Ca	99.1	mg/l	21/12/2016	N Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	21/12/2016	N Cov	WAS049
Copper, Ultra-low Total as Cu	<1.9	ug/l	20/12/2016	N Cov	WAS060
Iron , Total as Fe	<0.23	mg/l	21/12/2016	N Cov	WAS049
Ferrous Iron	<0.5	mg/l	22/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	22/12/2016	N Cov	WAS043
Lead , Total as Pb	<0.006	mg/l	21/12/2016	N Cov	WAS049
Magnesium, Total as Mg	10.6	mg/l	21/12/2016	N Cov	WAS049
Manganese , Total as Mn	0.016	mg/l	21/12/2016	N Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	17/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.004	mg/l	21/12/2016	N Cov	WAS049
Potassium , Total as K	1.41	mg/l	21/12/2016	N Cov	WAS049
Sodium , Total as Na	8.46	mg/l	21/12/2016	N Cov	WAS049
Vanadium , Total as V	<0.004	mg/l	21/12/2016	N Cov	WAS049
Zinc, Total as Zn	<0.018	mg/l	21/12/2016	N Cov	WAS049
pH	8.2	pH units	12/12/2016	N Cov	WAS039
Conductivity- Electrical 20C	563	uS/cm	12/12/2016	N Cov	WAS039
Alkalinity as CaCO3	286	mg/l	12/12/2016	N Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	10/12/2016	N Cov	WAS067

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738166**

Sample **5** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW05**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	18.4	mg/l	10/12/2016	Y Cov	WAS036
Nitrite as N	<0.08	mg/l	10/12/2016	Y Cov	WAS036
Phosphates , Total as P	<0.120	mg/l	21/12/2016	N Cov	WAS049
Sulphate as SO4	11.8	mg/l	10/12/2016	Y Cov	WAS036
BOD + ATU (5 day)	<1	mg/l	19/12/2016	Y Cov	WAS001
COD (Total)	<11.0	mg/l	13/12/2016	Y Cov	WAS040
TOC (Filtered)	1.0	mg/l	12/12/2016	N Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	15/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	10/12/2016	N Cov	WAS018
Sulphide as S	<0.020	mg/l	21/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	14/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	03/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	03/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	03/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	16/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	03/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	03/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	03/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	03/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	03/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	03/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	03/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	03/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	03/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	03/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	03/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	03/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	03/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	03/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	03/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	03/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	03/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	03/01/2017	Y Cov	GEO47

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738166**

Sample **5** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW05**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

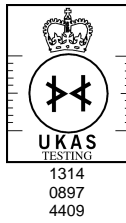
Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	03/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	03/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	03/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	03/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	03/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	03/01/2017	Y Cov	GEO47
Azinphos-ethyl	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	03/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	03/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	03/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	21/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	21/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	21/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	21/12/2016	Y Cov	GEO20

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738166**

Sample **5** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW05**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	21/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	21/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Mecoprop	<0.04	ug/l	21/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	14/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Naphthol	<0.10	ug/l	14/12/2016	N Cov	338
Phenol	<0.10	ug/l	14/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	14/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	13/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	13/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	13/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	13/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	13/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	13/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	13/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	13/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	13/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	15/12/2016	N Cov	GEO46

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Laboratory Number: **15738166**

Sample **5** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW05**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	<10	ug/l	15/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	<10	ug/l	15/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	<10	ug/l	15/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Anthracene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Chrysene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Fluoranthene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Fluorene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Naphthalene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Phenanthrene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Pyrene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
PAH, Total	<0.01	ug/l	15/12/2016	N Cov	GEO19
SVOC	Y	ug/l	15/12/2016	N Cov	GEO40
Phenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Chlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Methylphenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
3&4-Methylphenol	<4.0	ug/l	15/12/2016	N Cov	GEO40
Dibenzofuran	<4.0	ug/l	15/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40

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Issue **2**

Laboratory Number: **15738166**

Sample **5** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW05**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Hexachloroethane	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Nitrobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Isophorone	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Nitrophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Naphthalene	<8.0	ug/l	15/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Dimethylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Acenaphthylene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Acenaphthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Diethylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
4-Nitrophenol	<20.0	ug/l	15/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Fluorene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Diphenylamine	<4.0	ug/l	15/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Hexachlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Pentachlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Phenanthrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Anthracene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40

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Report Number: **COV/1343597/2016**
 Laboratory Number: **15738166**

Issue **2**
 Sample **5** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **SW05**
 Sample Matrix: **Surface Water**
 Sample Date/Time: **07 December 2016**
 Sample Received: **08 December 2016**
 Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Pyrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Chrysene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<20.0	ug/l	15/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Fluorophenol	104.8	%Recovery	15/12/2016	N Cov	GEO40
Phenol-d6	83.5	%Recovery	15/12/2016	N Cov	GEO40
Nitrobenzene-d5	89.2	%Recovery	15/12/2016	N Cov	GEO40
2-Fluorobiphenyl	87.4	%Recovery	15/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	80.5	%Recovery	15/12/2016	N Cov	GEO40
Terphenyl-d14	96.9	%Recovery	15/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	12/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	21/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Report Number: **COV/1343597/2016**
 Laboratory Number: **15738166**

Issue **2**
 Sample **5** of **12**

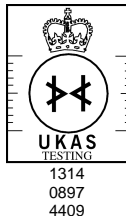
Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **SW05**
 Sample Matrix: **Surface Water**
 Sample Date/Time: **07 December 2016**
 Sample Received: **08 December 2016**
 Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Benzene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	29/12/2016	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Bromoform	<0.20	ug/l	29/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloroform	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	29/12/2016	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Naphthalene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738166**

Sample **5** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW05**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	29/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	29/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Toluene	<0.50	ug/l	29/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	29/12/2016	Y S	SUBCON

Analyst Comments for 15738166:

This sample has been analysed for Pesticides method GEO47, BOD + ATU (5 day), Magnesium, Total as Mg, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba outside recommended stability times. It is therefore possible that the results provided may be compromised. GEO40 SVOC Waters: Raised reporting limits due to insufficient sample as repeat extraction performed due to an original extraction error therefore extraction performed on reduced volumes. See attached SVOC-TIC Report.

{/*}The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis.{*/}

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **C. Law**

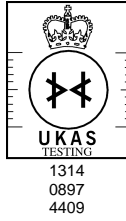
Date: **04 January 2017**

Title: **Inorganics Operations Manager**

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738167**

Sample **6** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **Site Discharge**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	<0.5	mg/l	22/12/2016	N Cov	WAS043
Nitrate as NO3	<3.1	mg/l	10/12/2016	Y Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	20/12/2016	N Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	20/12/2016	N Cov	WAS060
Arsenic, Ultra Low Total as As	0.0017	mg/l	20/12/2016	N Cov	WAS060
Fluoride	0.100	mg/l	16/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Aluminium, Total as Al	<0.1	mg/l	21/12/2016	N Cov	WAS049
Barium, Total as Ba	0.019	mg/l	21/12/2016	N Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	21/12/2016	N Cov	WAS049
Boron, Total as B	<0.23	mg/l	21/12/2016	N Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	21/12/2016	N Cov	WAS049
Calcium , Total as Ca	31.9	mg/l	21/12/2016	N Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	21/12/2016	N Cov	WAS049
Copper, Ultra-low Total as Cu	2.0	ug/l	20/12/2016	N Cov	WAS060
Iron , Total as Fe	<0.23	mg/l	21/12/2016	N Cov	WAS049
Ferrous Iron	<0.5	mg/l	22/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	22/12/2016	N Cov	WAS043
Lead , Total as Pb	<0.006	mg/l	21/12/2016	N Cov	WAS049
Magnesium, Total as Mg	0.9	mg/l	21/12/2016	N Cov	WAS049
Manganese , Total as Mn	<0.007	mg/l	21/12/2016	N Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	17/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.004	mg/l	21/12/2016	N Cov	WAS049
Potassium , Total as K	2.09	mg/l	21/12/2016	N Cov	WAS049
Sodium , Total as Na	3.22	mg/l	21/12/2016	N Cov	WAS049
Vanadium , Total as V	<0.004	mg/l	21/12/2016	N Cov	WAS049
Zinc, Total as Zn	<0.018	mg/l	21/12/2016	N Cov	WAS049
pH	7.8	pH units	12/12/2016	N Cov	WAS039
Conductivity- Electrical 20C	179	uS/cm	12/12/2016	N Cov	WAS039
Alkalinity as CaCO3	76.0	mg/l	19/12/2016	N Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	10/12/2016	N Cov	WAS067

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 Laboratory Number: **15738167**

Issue **2**
 Sample **6** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **Site Discharge**
 Sample Matrix: **Surface Water**
 Sample Date/Time: **07 December 2016**
 Sample Received: **08 December 2016**
 Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	<3.7	mg/l	10/12/2016	Y Cov	WAS036
Nitrite as N	<0.08	mg/l	10/12/2016	Y Cov	WAS036
Phosphates , Total as P	<0.120	mg/l	21/12/2016	N Cov	WAS049
Sulphate as SO4	6.9	mg/l	10/12/2016	Y Cov	WAS036
BOD + ATU (5 day)	<1	mg/l	19/12/2016	Y Cov	WAS001
COD (Total)	<11.0	mg/l	12/12/2016	Y Cov	WAS040
TOC (Filtered)	1.8	mg/l	12/12/2016	N Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	15/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	10/12/2016	N Cov	WAS018
Sulphide as S	<0.020	mg/l	21/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	14/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	03/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	03/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	03/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	16/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	03/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	03/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	03/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	03/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	03/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	03/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	03/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	03/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	03/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	03/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	03/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	03/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	03/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	03/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	03/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	03/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	03/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	03/01/2017	Y Cov	GEO47

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 Laboratory Number: **15738167**

Issue **2**
 Sample **6** of **12**

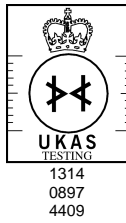
Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **Site Discharge**
 Sample Matrix: **Surface Water**
 Sample Date/Time: **07 December 2016**
 Sample Received: **08 December 2016**
 Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	03/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	03/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	03/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	03/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	03/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	03/01/2017	Y Cov	GEO47
Azinphos-ethyl	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	03/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	03/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	03/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	21/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	21/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	21/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	21/12/2016	Y Cov	GEO20

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Issue **2**
 Sample **6** of **12**

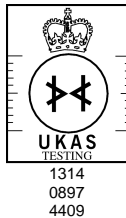
Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **Site Discharge**
 Sample Matrix: **Surface Water**
 Sample Date/Time: **07 December 2016**
 Sample Received: **08 December 2016**
 Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	21/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	21/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Mecoprop	<0.04	ug/l	21/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	14/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Naphthol	<0.10	ug/l	14/12/2016	N Cov	338
Phenol	<0.10	ug/l	14/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	14/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
VPH >C5 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	15/12/2016	N Cov	GEO46

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Issue **2**

Laboratory Number: **15738167**

Sample **6** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **Site Discharge**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	Analyst Com	ug/l	15/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	Analyst Com	ug/l	15/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	Analyst Com	ug/l	15/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Anthracene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Chrysene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Fluoranthene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Fluorene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Naphthalene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Phenanthrene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
Pyrene	<0.01	ug/l	15/12/2016	Y Cov	GEO19
PAH, Total	<0.01	ug/l	15/12/2016	N Cov	GEO19
SVOC	Y	ug/l	15/12/2016	N Cov	GEO40
Phenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Chlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Methylphenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
3&4-Methylphenol	<4.0	ug/l	15/12/2016	N Cov	GEO40
Dibenzofuran	<4.0	ug/l	15/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738167**

Sample **6** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **Site Discharge**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Hexachloroethane	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Nitrobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Isophorone	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Nitrophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Naphthalene	<8.0	ug/l	15/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Dimethylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Acenaphthylene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Acenaphthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Diethylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
4-Nitrophenol	<20.0	ug/l	15/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Fluorene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Diphenylamine	<4.0	ug/l	15/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Hexachlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Pentachlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Phenanthrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Anthracene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40

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Report Number: **COV/1343597/2016**
 Laboratory Number: **15738167**

Issue **2**
 Sample **6** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **Site Discharge**
 Sample Matrix: **Surface Water**
 Sample Date/Time: **07 December 2016**
 Sample Received: **08 December 2016**
 Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Pyrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Chrysene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<20.0	ug/l	15/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Fluorophenol	98.5	%Recovery	15/12/2016	N Cov	GEO40
Phenol-d6	75.2	%Recovery	15/12/2016	N Cov	GEO40
Nitrobenzene-d5	85.5	%Recovery	15/12/2016	N Cov	GEO40
2-Fluorobiphenyl	86.3	%Recovery	15/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	79.0	%Recovery	15/12/2016	N Cov	GEO40
Terphenyl-d14	93.7	%Recovery	15/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	12/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	21/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738167**

Sample **6** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **Site Discharge**

Sample Matrix: **Surface Water**

Sample Date/Time: **07 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Benzene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	29/12/2016	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Bromoform	<0.20	ug/l	29/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloroform	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	29/12/2016	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Naphthalene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Report Number: **COV/1343597/2016**
Laboratory Number: **15738167**

Issue **2**
Sample **6** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
Sample Point Description:
Sample Description: **Site Discharge**
Sample Matrix: **Surface Water**
Sample Date/Time: **07 December 2016**
Sample Received: **08 December 2016**
Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	29/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	29/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Toluene	<0.50	ug/l	29/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	29/12/2016	Y S	SUBCON

Analyst Comments for 15738167:

This sample has been analysed for Pesticides method GEO47, BOD + ATU (5 day), Magnesium, Total as Mg, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba outside recommended stability times. It is therefore possible that the results provided may be compromised. GEO40 SVOC Waters: Raised reporting limits due to insufficient sample as repeat extraction performed due to an original extraction error therefore extraction performed on reduced volumes. See attached SVOC-TIC Report.

304 VPH Waters: Indicative results only due to AQC failure: HBD - <10ug/l, HBE - <10ug/l, HBF - <10ug/l, HCD - <10ug/l, HBG - <10ug/l, HBH - <10ug/l, HBJ - <10ug/l, HBK - <10ug/l, HBL - <10ug/l, 08D - <10ug/l, 08L - <10ug/l, 07H - <10ug/l.

{/*}The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis.{*/}

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is

<1000g (1g is approximately equivalent to 1ml for sample volume analysed).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **C. Law**

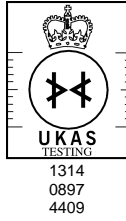
Date: **04 January 2017**

Title: **Inorganics Operations Manager**

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738168**

Sample **7** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW06**

Sample Matrix: **Surface Water**

Sample Date/Time: **08 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	<0.5	mg/l	22/12/2016	N Cov	WAS043
Nitrate as NO3	<3.1	mg/l	12/12/2016	Y Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	20/12/2016	N Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	20/12/2016	N Cov	WAS060
Arsenic, Ultra Low Total as As	<0.0010	mg/l	20/12/2016	N Cov	WAS060
Fluoride	0.113	mg/l	16/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Aluminium, Total as Al	<0.1	mg/l	21/12/2016	N Cov	WAS049
Barium, Total as Ba	0.055	mg/l	21/12/2016	N Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	21/12/2016	N Cov	WAS049
Boron, Total as B	<0.23	mg/l	21/12/2016	N Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	21/12/2016	N Cov	WAS049
Calcium , Total as Ca	96.2	mg/l	21/12/2016	N Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	21/12/2016	N Cov	WAS049
Copper, Ultra-low Total as Cu	<1.9	ug/l	20/12/2016	N Cov	WAS060
Iron , Total as Fe	<0.23	mg/l	21/12/2016	N Cov	WAS049
Ferrous Iron	<0.5	mg/l	22/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	22/12/2016	N Cov	WAS043
Lead , Total as Pb	<0.006	mg/l	21/12/2016	N Cov	WAS049
Magnesium, Total as Mg	8.7	mg/l	21/12/2016	N Cov	WAS049
Manganese , Total as Mn	0.162	mg/l	21/12/2016	N Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	17/12/2016	N Cov	WAS013
Nickel, Total as Ni	<0.003	mg/l	21/12/2016	N Cov	WAS049
Potassium , Total as K	1.94	mg/l	21/12/2016	N Cov	WAS049
Sodium , Total as Na	8.85	mg/l	21/12/2016	N Cov	WAS049
Vanadium , Total as V	<0.004	mg/l	21/12/2016	N Cov	WAS049
Zinc, Total as Zn	<0.018	mg/l	21/12/2016	N Cov	WAS049
pH	7.9	pH units	12/12/2016	N Cov	WAS039
Conductivity- Electrical 20C	492	uS/cm	12/12/2016	N Cov	WAS039
Alkalinity as CaCO3	271	mg/l	12/12/2016	N Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	10/12/2016	N Cov	WAS067

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738168**

Sample **7** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW06**

Sample Matrix: **Surface Water**

Sample Date/Time: **08 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	18.7	mg/l	10/12/2016	Y Cov	WAS036
Nitrite as N	<0.08	mg/l	10/12/2016	Y Cov	WAS036
Phosphates , Total as P	<0.120	mg/l	21/12/2016	N Cov	WAS049
Sulphate as SO4	18.3	mg/l	10/12/2016	Y Cov	WAS036
BOD + ATU (5 day)	<1	mg/l	19/12/2016	Y Cov	WAS001
COD (Total)	17.0	mg/l	14/12/2016	Y Cov	WAS040
TOC (Filtered)	2.8	mg/l	12/12/2016	N Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	15/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	10/12/2016	N Cov	WAS018
Sulphide as S	<0.020	mg/l	21/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	14/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	03/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	03/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	03/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	16/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	03/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	03/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	03/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	03/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	03/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	03/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	03/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	03/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	03/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	03/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	03/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	03/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	03/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	03/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	03/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	03/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	03/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	03/01/2017	Y Cov	GEO47

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738168**

Sample **7** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW06**

Sample Matrix: **Surface Water**

Sample Date/Time: **08 December 2016**

Sample Received: **08 December 2016**

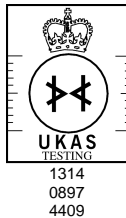
Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	03/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	03/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	03/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	03/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	03/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	03/01/2017	Y Cov	GEO47
Azinphos-ethyl	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	03/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	03/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	03/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	21/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	21/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	21/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	21/12/2016	Y Cov	GEO20

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738168**

Sample **7** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW06**

Sample Matrix: **Surface Water**

Sample Date/Time: **08 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	21/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	21/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Mecoprop	<0.04	ug/l	21/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	14/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Naphthol	<0.10	ug/l	14/12/2016	N Cov	338
Phenol	<0.10	ug/l	14/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	14/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
VPH >C5 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	15/12/2016	N Cov	GEO46

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Issue **2**

Laboratory Number: **15738168**

Sample **7** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW06**

Sample Matrix: **Surface Water**

Sample Date/Time: **08 December 2016**

Sample Received: **08 December 2016**

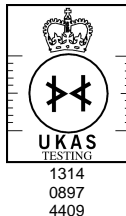
Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	Analyst Com	ug/l	15/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	Analyst Com	ug/l	15/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	Analyst Com	ug/l	15/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Anthracene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Chrysene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Fluoranthene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Fluorene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Naphthalene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Phenanthrene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Pyrene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
PAH, Total	<0.01	ug/l	14/12/2016	N Cov	GEO19
SVOC	Y	ug/l	15/12/2016	N Cov	GEO40
Phenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Chlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Methylphenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
3&4-Methylphenol	<4.0	ug/l	15/12/2016	N Cov	GEO40
Dibenzofuran	<4.0	ug/l	15/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738168**

Sample **7** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW06**

Sample Matrix: **Surface Water**

Sample Date/Time: **08 December 2016**

Sample Received: **08 December 2016**

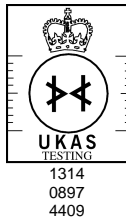
Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Hexachloroethane	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Nitrobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Isophorone	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Nitrophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Naphthalene	<8.0	ug/l	15/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Dimethylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Acenaphthylene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Acenaphthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Diethylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
4-Nitrophenol	<20.0	ug/l	15/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Fluorene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Diphenylamine	<4.0	ug/l	15/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Hexachlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Pentachlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Phenanthrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Anthracene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40

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Report Number: **COV/1343597/2016**
 Laboratory Number: **15738168**

Issue **2**
 Sample **7** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **SW06**
 Sample Matrix: **Surface Water**
 Sample Date/Time: **08 December 2016**
 Sample Received: **08 December 2016**
 Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Pyrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Chrysene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<20.0	ug/l	15/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Fluorophenol	99.5	%Recovery	15/12/2016	N Cov	GEO40
Phenol-d6	80.9	%Recovery	15/12/2016	N Cov	GEO40
Nitrobenzene-d5	86.3	%Recovery	15/12/2016	N Cov	GEO40
2-Fluorobiphenyl	87.8	%Recovery	15/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	78.0	%Recovery	15/12/2016	N Cov	GEO40
Terphenyl-d14	92.9	%Recovery	15/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	12/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	21/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738168**

Sample **7** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW06**

Sample Matrix: **Surface Water**

Sample Date/Time: **08 December 2016**

Sample Received: **08 December 2016**

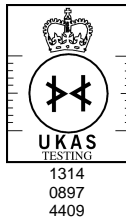
Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Benzene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	29/12/2016	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Bromoform	<0.20	ug/l	29/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloroform	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	29/12/2016	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Naphthalene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Report Number: **COV/1343597/2016**
 Laboratory Number: **15738168**

Issue **2**
 Sample **7** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **SW06**
 Sample Matrix: **Surface Water**
 Sample Date/Time: **08 December 2016**
 Sample Received: **08 December 2016**
 Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	29/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	29/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Toluene	<0.50	ug/l	29/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	29/12/2016	Y S	SUBCON

Analyst Comments for 15738168:

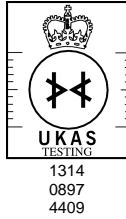
This sample has been analysed for Pesticides method GEO47, BOD + ATU (5 day), Magnesium, Total as Mg, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba outside recommended stability times. It is therefore possible that the results provided may be compromised. GEO40 SVOC Waters: Raised reporting limits due to insufficient sample as repeat extraction performed due to an original extraction error therefore extraction performed on reduced volumes. See attached SVOC-TIC Report.
 304 VPH Waters: Indicative results only due to AQC failure: HBD - <10ug/l, HBE - <10ug/l, HBF - <10ug/l, HCD - <10ug/l, HBG - <10ug/l, HBH - <10ug/l, HBJ - <10ug/l, HBK - <10ug/l, HBL - <10ug/l, 08D - <10ug/l, 08L - <10ug/l, 07H - <10ug/l.

{/*}The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis.{/*}

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.
 Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).
 For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).
 I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:	Name: C. Law	Date: 04 January 2017
	Title: Inorganics Operations Manager	

Certificate of Analysis



Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738169**

Sample **8** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW07**

Sample Matrix: **Surface Water**

Sample Date/Time: **08 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	<0.5	mg/l	22/12/2016	N Cov	WAS043
Nitrate as NO3	<3.1	mg/l	12/12/2016	Y Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	20/12/2016	N Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	20/12/2016	N Cov	WAS060
Arsenic, Ultra Low Total as As	0.0011	mg/l	20/12/2016	N Cov	WAS060
Fluoride	0.075	mg/l	16/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Aluminium, Total as Al	<0.1	mg/l	21/12/2016	N Cov	WAS049
Barium, Total as Ba	0.075	mg/l	21/12/2016	N Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	21/12/2016	N Cov	WAS049
Boron, Total as B	<0.23	mg/l	21/12/2016	N Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	21/12/2016	N Cov	WAS049
Calcium , Total as Ca	102	mg/l	21/12/2016	N Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	21/12/2016	N Cov	WAS049
Copper, Ultra-low Total as Cu	<1.9	ug/l	20/12/2016	N Cov	WAS060
Iron , Total as Fe	0.69	mg/l	21/12/2016	N Cov	WAS049
Ferrous Iron	<0.5	mg/l	22/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	22/12/2016	N Cov	WAS043
Lead , Total as Pb	<0.006	mg/l	21/12/2016	N Cov	WAS049
Magnesium, Total as Mg	8.8	mg/l	21/12/2016	N Cov	WAS049
Manganese , Total as Mn	0.427	mg/l	21/12/2016	N Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	17/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.006	mg/l	21/12/2016	N Cov	WAS049
Potassium , Total as K	2.42	mg/l	21/12/2016	N Cov	WAS049
Sodium , Total as Na	9.67	mg/l	21/12/2016	N Cov	WAS049
Vanadium , Total as V	<0.004	mg/l	21/12/2016	N Cov	WAS049
Zinc, Total as Zn	<0.018	mg/l	21/12/2016	N Cov	WAS049
pH	7.8	pH units	12/12/2016	N Cov	WAS039
Conductivity- Electrical 20C	509	uS/cm	12/12/2016	N Cov	WAS039
Alkalinity as CaCO3	283	mg/l	12/12/2016	N Cov	WAS025
Ammoniacal Nitrogen as N (LL)	0.20	mg/l	10/12/2016	N Cov	WAS067

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738169**

Sample **8** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW07**

Sample Matrix: **Surface Water**

Sample Date/Time: **08 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	18.3	mg/l	10/12/2016	Y Cov	WAS036
Nitrite as N	<0.08	mg/l	10/12/2016	Y Cov	WAS036
Phosphates , Total as P	<0.120	mg/l	21/12/2016	N Cov	WAS049
Sulphate as SO4	18.8	mg/l	10/12/2016	Y Cov	WAS036
BOD + ATU (5 day)	<1	mg/l	19/12/2016	Y Cov	WAS001
COD (Total)	<11.0	mg/l	14/12/2016	Y Cov	WAS040
TOC (Filtered)	3.4	mg/l	12/12/2016	N Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	15/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	10/12/2016	N Cov	WAS018
Sulphide as S	<0.020	mg/l	21/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	14/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	03/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	03/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	03/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	16/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	03/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	03/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	03/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	03/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	03/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	03/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	03/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	03/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	03/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	03/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	03/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	03/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	03/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	03/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	03/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	03/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	03/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	03/01/2017	Y Cov	GEO47

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Sample Matrix: **Surface Water**

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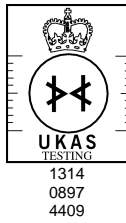
Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	03/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	03/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	03/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	03/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	03/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	03/01/2017	Y Cov	GEO47
Azinphos-ethyl	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	03/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	03/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	03/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	21/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	21/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	21/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	24/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	21/12/2016	Y Cov	GEO20

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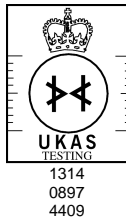
Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	21/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	21/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	24/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Mecoprop	<0.04	ug/l	21/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	14/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Naphthol	<0.10	ug/l	14/12/2016	N Cov	338
Phenol	<0.10	ug/l	14/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	14/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
VPH >C5 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	15/12/2016	N Cov	GEO46

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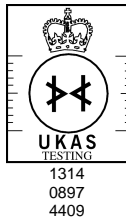
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Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	Analyst Com	ug/l	15/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	Analyst Com	ug/l	15/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	Analyst Com	ug/l	15/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Anthracene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Chrysene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Fluoranthene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Fluorene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Naphthalene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Phenanthrene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Pyrene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
PAH, Total	<0.01	ug/l	14/12/2016	N Cov	GEO19
SVOC	Y	ug/l	15/12/2016	N Cov	GEO40
Phenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Chlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Methylphenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
3&4-Methylphenol	<4.0	ug/l	15/12/2016	N Cov	GEO40
Dibenzofuran	<4.0	ug/l	15/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40

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Bis(2-chloroisopropyl)ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Hexachloroethane	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Nitrobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Isophorone	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Nitrophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Naphthalene	<8.0	ug/l	15/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Dimethylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Acenaphthylene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Acenaphthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Diethylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
4-Nitrophenol	<20.0	ug/l	15/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Fluorene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Diphenylamine	<4.0	ug/l	15/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Hexachlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Pentachlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Phenanthrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Anthracene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40

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Fluoranthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Pyrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Chrysene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<20.0	ug/l	15/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Fluorophenol	99.7	%Recovery	15/12/2016	N Cov	GEO40
Phenol-d6	81.7	%Recovery	15/12/2016	N Cov	GEO40
Nitrobenzene-d5	84.5	%Recovery	15/12/2016	N Cov	GEO40
2-Fluorobiphenyl	83.5	%Recovery	15/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	77.9	%Recovery	15/12/2016	N Cov	GEO40
Terphenyl-d14	92.9	%Recovery	15/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	12/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	21/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Sample Date/Time: **08 December 2016**

Sample Received: **08 December 2016**

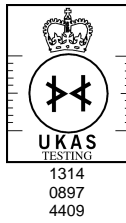
Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Benzene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	29/12/2016	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Bromoform	<0.20	ug/l	29/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloroform	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	29/12/2016	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Naphthalene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738169**

Sample **8** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW07**

Sample Matrix: **Surface Water**

Sample Date/Time: **08 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	29/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	29/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Toluene	<0.50	ug/l	29/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	29/12/2016	Y S	SUBCON

Analyst Comments for 15738169:

This sample has been analysed for Pesticides method GEO47, BOD + ATU (5 day), Magnesium, Total as Mg, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba outside recommended stability times. It is therefore possible that the results provided may be compromised. GEO40 SVOC Waters: Raised reporting limits due to insufficient sample as repeat extraction performed due to an original extraction error therefore extraction performed on reduced volumes. See attached SVOC-TIC Report.
304 VPH Waters: Indicative results only due to AQC failure: HBD - <10ug/l, HBE - <10ug/l, HBF - <10ug/l, HCD - <10ug/l, HBG - <10ug/l, HBH - <10ug/l, HBJ - <10ug/l, HBK - <10ug/l, HBL - <10ug/l, 08D - <10ug/l, 08L - <10ug/l, 07H - <10ug/l.
{/*}The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis.{*/}.

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).
For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **C. Law**

Date: **04 January 2017**

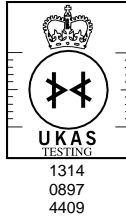
Title: **Inorganics Operations Manager**

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Page 73 of 109

Certificate of Analysis



Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738170**

Sample **9** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW08**

Sample Matrix: **Surface Water**

Sample Date/Time: **08 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	<0.5	mg/l	22/12/2016	N Cov	WAS043
Nitrate as NO3	9.3	mg/l	12/12/2016	Y Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	20/12/2016	N Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	20/12/2016	N Cov	WAS060
Arsenic, Ultra Low Total as As	<0.0010	mg/l	20/12/2016	N Cov	WAS060
Fluoride	0.063	mg/l	16/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Aluminium, Total as Al	<0.1	mg/l	21/12/2016	N Cov	WAS049
Barium, Total as Ba	0.064	mg/l	21/12/2016	N Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	21/12/2016	N Cov	WAS049
Boron, Total as B	<0.23	mg/l	21/12/2016	N Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	21/12/2016	N Cov	WAS049
Calcium , Total as Ca	102	mg/l	21/12/2016	N Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	21/12/2016	N Cov	WAS049
Copper, Ultra-low Total as Cu	<1.9	ug/l	20/12/2016	N Cov	WAS060
Iron , Total as Fe	<0.23	mg/l	21/12/2016	N Cov	WAS049
Ferrous Iron	<0.5	mg/l	22/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	22/12/2016	N Cov	WAS043
Lead , Total as Pb	<0.006	mg/l	21/12/2016	N Cov	WAS049
Magnesium, Total as Mg	9.1	mg/l	21/12/2016	N Cov	WAS049
Manganese , Total as Mn	<0.007	mg/l	21/12/2016	N Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	17/12/2016	N Cov	WAS013
Nickel, Total as Ni	<0.003	mg/l	21/12/2016	N Cov	WAS049
Potassium , Total as K	2.04	mg/l	21/12/2016	N Cov	WAS049
Sodium , Total as Na	11.8	mg/l	21/12/2016	N Cov	WAS049
Vanadium , Total as V	<0.004	mg/l	21/12/2016	N Cov	WAS049
Zinc, Total as Zn	<0.018	mg/l	21/12/2016	N Cov	WAS049
pH	8.2	pH units	12/12/2016	N Cov	WAS039
Conductivity- Electrical 20C	504	uS/cm	12/12/2016	N Cov	WAS039
Alkalinity as CaCO3	274	mg/l	12/12/2016	N Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	10/12/2016	N Cov	WAS067

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738170**

Sample **9** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW08**

Sample Matrix: **Surface Water**

Sample Date/Time: **08 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	21.9	mg/l	10/12/2016	Y Cov	WAS036
Nitrite as N	<0.08	mg/l	10/12/2016	Y Cov	WAS036
Phosphates , Total as P	<0.120	mg/l	21/12/2016	N Cov	WAS049
Sulphate as SO4	19.2	mg/l	10/12/2016	Y Cov	WAS036
BOD + ATU (5 day)	1	mg/l	19/12/2016	Y Cov	WAS001
COD (Total)	13.0	mg/l	14/12/2016	Y Cov	WAS040
TOC (Filtered)	1.5	mg/l	12/12/2016	N Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	15/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	10/12/2016	N Cov	WAS018
Sulphide as S	<0.020	mg/l	21/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	14/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	03/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	03/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	03/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	16/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	03/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	03/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	03/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	03/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	03/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	03/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	03/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	03/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	03/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	03/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	03/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	03/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	03/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	03/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	03/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	03/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	03/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	03/01/2017	Y Cov	GEO47

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738170**

Sample **9** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW08**

Sample Matrix: **Surface Water**

Sample Date/Time: **08 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	03/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	03/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	03/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	03/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	03/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	03/01/2017	Y Cov	GEO47
Azinphos-ethyl	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	03/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	03/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	03/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	21/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	21/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	21/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	24/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	21/12/2016	Y Cov	GEO20

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738170**

Sample **9** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW08**

Sample Matrix: **Surface Water**

Sample Date/Time: **08 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	21/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	21/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	24/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Mecoprop	<0.04	ug/l	21/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	14/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Naphthol	<0.10	ug/l	14/12/2016	N Cov	338
Phenol	<0.10	ug/l	14/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	14/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
VPH >C5 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	15/12/2016	N Cov	GEO46

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738170**

Sample **9** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW08**

Sample Matrix: **Surface Water**

Sample Date/Time: **08 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	Analyst Com	ug/l	15/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	Analyst Com	ug/l	15/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	Analyst Com	ug/l	15/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Anthracene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Chrysene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Fluoranthene	0.011	ug/l	14/12/2016	Y Cov	GEO19
Fluorene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Naphthalene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Phenanthrene	0.013	ug/l	14/12/2016	Y Cov	GEO19
Pyrene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
PAH, Total	0.024	ug/l	14/12/2016	N Cov	GEO19
SVOC	Y	ug/l	15/12/2016	N Cov	GEO40
Phenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Chlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Methylphenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
3&4-Methylphenol	<4.0	ug/l	15/12/2016	N Cov	GEO40
Dibenzofuran	<4.0	ug/l	15/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738170**

Sample **9** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW08**

Sample Matrix: **Surface Water**

Sample Date/Time: **08 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Hexachloroethane	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Nitrobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Isophorone	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Nitrophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Naphthalene	<8.0	ug/l	15/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Dimethylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Acenaphthylene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Acenaphthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Diethylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
4-Nitrophenol	<20.0	ug/l	15/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Fluorene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Diphenylamine	<4.0	ug/l	15/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Hexachlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Pentachlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Phenanthrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Anthracene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40

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Report Number: **COV/1343597/2016**
 Laboratory Number: **15738170**

Issue **2**
 Sample **9** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **SW08**
 Sample Matrix: **Surface Water**
 Sample Date/Time: **08 December 2016**
 Sample Received: **08 December 2016**
 Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Pyrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Chrysene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<20.0	ug/l	15/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Fluorophenol	97.3	%Recovery	15/12/2016	N Cov	GEO40
Phenol-d6	81.6	%Recovery	15/12/2016	N Cov	GEO40
Nitrobenzene-d5	86.6	%Recovery	15/12/2016	N Cov	GEO40
2-Fluorobiphenyl	85.2	%Recovery	15/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	77.4	%Recovery	15/12/2016	N Cov	GEO40
Terphenyl-d14	95.3	%Recovery	15/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	12/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	21/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738170**

Sample **9** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW08**

Sample Matrix: **Surface Water**

Sample Date/Time: **08 December 2016**

Sample Received: **08 December 2016**

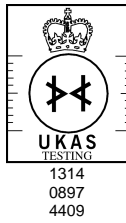
Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Benzene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	29/12/2016	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Bromoform	0.60	ug/l	29/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloroform	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	29/12/2016	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Naphthalene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Report Number: **COV/1343597/2016**
 Laboratory Number: **15738170**

Issue **2**
 Sample **9** of **12**


Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **SW08**
 Sample Matrix: **Surface Water**
 Sample Date/Time: **08 December 2016**
 Sample Received: **08 December 2016**
 Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	29/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	29/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Toluene	<0.50	ug/l	29/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	29/12/2016	Y S	SUBCON

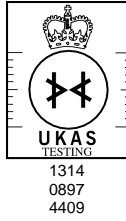
Analyst Comments for 15738170:

This sample has been analysed for Pesticides method GEO47, BOD + ATU (5 day), Magnesium, Total as Mg, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba outside recommended stability times. It is therefore possible that the results provided may be compromised.
 GEO40 SVOC Waters: Raised reporting limits due to insufficient sample as repeat extraction performed due to an original extraction error therefore extraction performed on reduced volumes. See attached SVOC-TIC Report.
 304 VPH Waters: Indicative results only due to AQC failure: HBD - <10ug/l, HBE - <10ug/l, HBF - <10ug/l, HCD - <10ug/l, HBG - <10ug/l, HBH - <10ug/l, HBJ - <10ug/l, HBK - <10ug/l, HBL - <10ug/l, 08D - <10ug/l, 08L - <10ug/l, 07H - <10ug/l.
 {/*}The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis.{*/}.

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.
 Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).
 For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).
 I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:  Name: **C. Law** Date: **04 January 2017**
 Title: **Inorganics Operations Manager**

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738171**

Sample **10** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW14**

Sample Matrix: **Surface Water**

Sample Date/Time: **08 December 2016**

Sample Received: **08 December 2016**

Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	<0.5	mg/l	22/12/2016	N Cov	WAS043
Nitrate as NO3	<3.1	mg/l	12/12/2016	Y Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	20/12/2016	N Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	20/12/2016	N Cov	WAS060
Arsenic, Ultra Low Total as As	<0.0010	mg/l	20/12/2016	N Cov	WAS060
Fluoride	0.075	mg/l	16/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Aluminium, Total as Al	<0.1	mg/l	21/12/2016	N Cov	WAS049
Barium, Total as Ba	0.064	mg/l	21/12/2016	N Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	21/12/2016	N Cov	WAS049
Boron, Total as B	<0.23	mg/l	21/12/2016	N Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	21/12/2016	N Cov	WAS049
Calcium , Total as Ca	97.7	mg/l	21/12/2016	N Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	21/12/2016	N Cov	WAS049
Copper, Ultra-low Total as Cu	<1.9	ug/l	20/12/2016	N Cov	WAS060
Iron , Total as Fe	0.62	mg/l	21/12/2016	N Cov	WAS049
Ferrous Iron	<0.5	mg/l	22/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	22/12/2016	N Cov	WAS043
Lead , Total as Pb	<0.006	mg/l	21/12/2016	N Cov	WAS049
Magnesium, Total as Mg	8.6	mg/l	21/12/2016	N Cov	WAS049
Manganese , Total as Mn	0.229	mg/l	21/12/2016	N Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	17/12/2016	N Cov	WAS013
Nickel, Total as Ni	<0.003	mg/l	21/12/2016	N Cov	WAS049
Potassium , Total as K	2.05	mg/l	21/12/2016	N Cov	WAS049
Sodium , Total as Na	8.21	mg/l	21/12/2016	N Cov	WAS049
Vanadium , Total as V	<0.004	mg/l	21/12/2016	N Cov	WAS049
Zinc, Total as Zn	<0.018	mg/l	21/12/2016	N Cov	WAS049
pH	7.8	pH units	12/12/2016	N Cov	WAS039
Conductivity- Electrical 20C	504	uS/cm	12/12/2016	N Cov	WAS039
Alkalinity as CaCO3	282	mg/l	12/12/2016	N Cov	WAS025
Ammoniacal Nitrogen as N (LL)	0.19	mg/l	10/12/2016	N Cov	WAS067

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Report Number: **COV/1343597/2016**
 Laboratory Number: **15738171**

Issue **2**
 Sample **10** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **SW14**
 Sample Matrix: **Surface Water**
 Sample Date/Time: **08 December 2016**
 Sample Received: **08 December 2016**
 Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	18.8	mg/l	10/12/2016	Y Cov	WAS036
Nitrite as N	<0.08	mg/l	10/12/2016	Y Cov	WAS036
Phosphates , Total as P	<0.120	mg/l	21/12/2016	N Cov	WAS049
Sulphate as SO4	19.3	mg/l	10/12/2016	Y Cov	WAS036
BOD + ATU (5 day)	<1	mg/l	19/12/2016	Y Cov	WAS001
COD (Total)	24.0	mg/l	14/12/2016	Y Cov	WAS040
TOC (Filtered)	3.3	mg/l	12/12/2016	N Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	15/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	10/12/2016	N Cov	WAS018
Sulphide as S	<0.020	mg/l	21/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	14/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	03/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	03/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	03/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	16/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	03/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	03/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	03/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	03/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	03/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	03/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	03/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	03/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	03/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	03/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	03/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	03/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	03/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	03/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	03/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	03/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	03/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	03/01/2017	Y Cov	GEO47

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Report Number: **COV/1343597/2016**
 Laboratory Number: **15738171**

Issue **2**
 Sample **10** of **12**

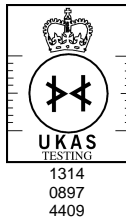
Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **SW14**
 Sample Matrix: **Surface Water**
 Sample Date/Time: **08 December 2016**
 Sample Received: **08 December 2016**
 Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	03/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	03/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	03/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	03/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	03/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	03/01/2017	Y Cov	GEO47
Azinphos-ethyl	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	03/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	03/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	03/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	21/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	21/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	21/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	24/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	21/12/2016	Y Cov	GEO20

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Report Number: **COV/1343597/2016**
 Laboratory Number: **15738171**

Issue **2**
 Sample **10** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **SW14**
 Sample Matrix: **Surface Water**
 Sample Date/Time: **08 December 2016**
 Sample Received: **08 December 2016**
 Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	21/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	21/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	24/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Mecoprop	<0.04	ug/l	21/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	14/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Naphthol	<0.10	ug/l	14/12/2016	N Cov	338
Phenol	<0.10	ug/l	14/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	14/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
VPH >C5 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	15/12/2016	N Cov	GEO46

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 Sample **10** of **12**

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 Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	Analyst Com	ug/l	15/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	Analyst Com	ug/l	15/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	Analyst Com	ug/l	15/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Anthracene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Chrysene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Fluoranthene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Fluorene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Naphthalene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Phenanthrene	0.010	ug/l	14/12/2016	Y Cov	GEO19
Pyrene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
PAH, Total	0.010	ug/l	14/12/2016	N Cov	GEO19
SVOC	Y	ug/l	15/12/2016	N Cov	GEO40
Phenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Chlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Methylphenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
3&4-Methylphenol	<4.0	ug/l	15/12/2016	N Cov	GEO40
Dibenzofuran	<4.0	ug/l	15/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40

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Issue **2**
 Sample **10** of **12**

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 Sample Point Description:
 Sample Description: **SW14**
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 Sample Date/Time: **08 December 2016**
 Sample Received: **08 December 2016**
 Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Hexachloroethane	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Nitrobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Isophorone	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Nitrophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Naphthalene	<8.0	ug/l	15/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Dimethylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Acenaphthylene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Acenaphthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Diethylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
4-Nitrophenol	<20.0	ug/l	15/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Fluorene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Diphenylamine	<4.0	ug/l	15/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Hexachlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Pentachlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Phenanthrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Anthracene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40

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Issue **2**
 Sample **10** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **SW14**
 Sample Matrix: **Surface Water**
 Sample Date/Time: **08 December 2016**
 Sample Received: **08 December 2016**
 Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Pyrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Chrysene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<20.0	ug/l	15/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Fluorophenol	102.6	%Recovery	15/12/2016	N Cov	GEO40
Phenol-d6	82.2	%Recovery	15/12/2016	N Cov	GEO40
Nitrobenzene-d5	85.8	%Recovery	15/12/2016	N Cov	GEO40
2-Fluorobiphenyl	84.9	%Recovery	15/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	82.3	%Recovery	15/12/2016	N Cov	GEO40
Terphenyl-d14	94.8	%Recovery	15/12/2016	N Cov	GEO40
Nitrite as NO2	<0.28	mg/l	12/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	21/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Certificate of Analysis



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Issue **2**
 Sample **10** of **12**

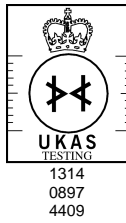
Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **SW14**
 Sample Matrix: **Surface Water**
 Sample Date/Time: **08 December 2016**
 Sample Received: **08 December 2016**
 Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Benzene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	29/12/2016	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Bromoform	<0.20	ug/l	29/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloroform	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	29/12/2016	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Naphthalene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Issue **2**
 Sample **10** of **12**


Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **SW14**
 Sample Matrix: **Surface Water**
 Sample Date/Time: **08 December 2016**
 Sample Received: **08 December 2016**
 Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	29/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	29/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Toluene	<0.50	ug/l	29/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	29/12/2016	Y S	SUBCON

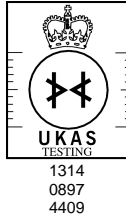
Analyst Comments for 15738171:

This sample has been analysed for Pesticides method GEO47, BOD + ATU (5 day), Magnesium, Total as Mg, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba outside recommended stability times. It is therefore possible that the results provided may be compromised. GEO40 SVOC Waters: Raised reporting limits due to insufficient sample as repeat extraction performed due to an original extraction error therefore extraction performed on reduced volumes. See attached SVOC-TIC Report.
 304 VPH Waters: Indicative results only due to AQC failure: HBD - <10ug/l, HBE - <10ug/l, HBF - <10ug/l, HCD - <10ug/l, HBG - <10ug/l, HBH - <10ug/l, HBJ - <10ug/l, HBK - <10ug/l, HBL - <10ug/l, 08D - <10ug/l, 08L - <10ug/l, 07H - <10ug/l.
 {/*}The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis.{*/}.

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.
 Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).
 For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).
 I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:  Name: **C. Law** Date: **04 January 2017**
 Title: **Inorganics Operations Manager**

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738172**

Sample **11** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW15**

Sample Matrix: **Surface Water**

Sample Date/Time: **08 December 2016**

Sample Received: **08 December 2016**

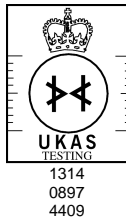
Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	<0.5	mg/l	22/12/2016	N Cov	WAS043
Nitrate as NO3	<3.1	mg/l	12/12/2016	Y Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	20/12/2016	N Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	20/12/2016	N Cov	WAS060
Arsenic, Ultra Low Total as As	<0.0010	mg/l	20/12/2016	N Cov	WAS060
Fluoride	0.068	mg/l	16/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Aluminium, Total as Al	<0.1	mg/l	21/12/2016	N Cov	WAS049
Barium, Total as Ba	0.051	mg/l	21/12/2016	N Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	21/12/2016	N Cov	WAS049
Boron, Total as B	<0.23	mg/l	21/12/2016	N Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	21/12/2016	N Cov	WAS049
Calcium , Total as Ca	91.7	mg/l	21/12/2016	N Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	21/12/2016	N Cov	WAS049
Copper, Ultra-low Total as Cu	<1.9	ug/l	20/12/2016	N Cov	WAS060
Iron , Total as Fe	<0.23	mg/l	21/12/2016	N Cov	WAS049
Ferrous Iron	<0.5	mg/l	22/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	22/12/2016	N Cov	WAS043
Lead , Total as Pb	<0.006	mg/l	21/12/2016	N Cov	WAS049
Magnesium, Total as Mg	8.5	mg/l	21/12/2016	N Cov	WAS049
Manganese , Total as Mn	0.035	mg/l	21/12/2016	N Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	17/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.003	mg/l	21/12/2016	N Cov	WAS049
Potassium , Total as K	2.14	mg/l	21/12/2016	N Cov	WAS049
Sodium , Total as Na	8.47	mg/l	21/12/2016	N Cov	WAS049
Vanadium , Total as V	<0.004	mg/l	21/12/2016	N Cov	WAS049
Zinc, Total as Zn	<0.018	mg/l	21/12/2016	N Cov	WAS049
pH	8.0	pH units	12/12/2016	N Cov	WAS039
Conductivity- Electrical 20C	467	uS/cm	12/12/2016	N Cov	WAS039
Alkalinity as CaCO3	261	mg/l	12/12/2016	N Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	10/12/2016	N Cov	WAS067

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 Laboratory Number: **15738172**

Issue **2**
 Sample **11** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **SW15**
 Sample Matrix: **Surface Water**
 Sample Date/Time: **08 December 2016**
 Sample Received: **08 December 2016**
 Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	18.6	mg/l	10/12/2016	Y Cov	WAS036
Nitrite as N	<0.08	mg/l	10/12/2016	Y Cov	WAS036
Phosphates , Total as P	<0.120	mg/l	21/12/2016	N Cov	WAS049
Sulphate as SO4	18.2	mg/l	10/12/2016	Y Cov	WAS036
BOD + ATU (5 day)	1	mg/l	19/12/2016	Y Cov	WAS001
COD (Total)	21.0	mg/l	14/12/2016	Y Cov	WAS040
TOC (Filtered)	3.5	mg/l	12/12/2016	N Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	15/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	10/12/2016	N Cov	WAS018
Sulphide as S	<0.020	mg/l	21/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	14/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	03/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	03/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	03/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	16/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	03/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	03/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	03/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	03/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	03/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	03/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	03/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	03/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	03/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	03/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	03/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	03/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	03/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	03/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	03/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	03/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	03/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	03/01/2017	Y Cov	GEO47

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Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	03/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	03/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	03/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	03/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	03/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	03/01/2017	Y Cov	GEO47
Azinphos-ethyl	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	03/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	03/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	03/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	21/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	21/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	21/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	04/01/2017	Y Cov	GEO20
Benazolin	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	21/12/2016	Y Cov	GEO20

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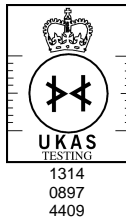
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Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	21/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	21/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	04/01/2017	Y Cov	GEO20
Triclopyr	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Mecoprop	<0.04	ug/l	21/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	14/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Naphthol	<0.10	ug/l	14/12/2016	N Cov	338
Phenol	<0.10	ug/l	14/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	14/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
VPH >C5 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	15/12/2016	N Cov	GEO46

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Issue **2**
 Sample **11** of **12**

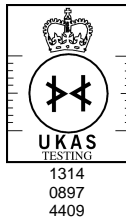
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Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	Analyst Com	ug/l	15/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	Analyst Com	ug/l	15/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	Analyst Com	ug/l	15/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Anthracene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Chrysene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Fluoranthene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Fluorene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Naphthalene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Phenanthrene	0.010	ug/l	14/12/2016	Y Cov	GEO19
Pyrene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
PAH, Total	0.010	ug/l	14/12/2016	N Cov	GEO19
SVOC	Y	ug/l	15/12/2016	N Cov	GEO40
Phenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Chlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Methylphenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
3&4-Methylphenol	<4.0	ug/l	15/12/2016	N Cov	GEO40
Dibenzofuran	<4.0	ug/l	15/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40

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Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Hexachloroethane	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Nitrobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Isophorone	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Nitrophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Naphthalene	<8.0	ug/l	15/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Dimethylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Acenaphthylene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Acenaphthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Diethylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
4-Nitrophenol	<20.0	ug/l	15/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Fluorene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Diphenylamine	<4.0	ug/l	15/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Hexachlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Pentachlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Phenanthrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Anthracene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40

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Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Pyrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Chrysene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<20.0	ug/l	15/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Fluorophenol	101.0	%Recovery	15/12/2016	N Cov	GEO40
Phenol-d6	82.7	%Recovery	15/12/2016	N Cov	GEO40
Nitrobenzene-d5	87.1	%Recovery	15/12/2016	N Cov	GEO40
2-Fluorobiphenyl	85.1	%Recovery	15/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	71.9	%Recovery	15/12/2016	N Cov	GEO40
Terphenyl-d14	93.6	%Recovery	15/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	12/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	21/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON

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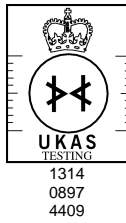
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1,2-Dibromoethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Benzene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	29/12/2016	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Bromoform	<0.20	ug/l	29/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloroform	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	29/12/2016	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Naphthalene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Report Number: **COV/1343597/2016**
 Laboratory Number: **15738172**

Issue **2**
 Sample **11** of **12**


Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **SW15**
 Sample Matrix: **Surface Water**
 Sample Date/Time: **08 December 2016**
 Sample Received: **08 December 2016**
 Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	29/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	29/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Toluene	<0.50	ug/l	29/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	29/12/2016	Y S	SUBCON

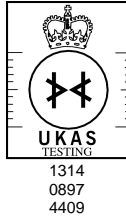
Analyst Comments for 15738172:

This sample has been analysed for Pesticides method GEO47, BOD + ATU (5 day), Magnesium, Total as Mg, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba outside recommended stability times. It is therefore possible that the results provided may be compromised. GEO40 SVOC Waters: Raised reporting limits due to insufficient sample as repeat extraction performed due to an original extraction error therefore extraction performed on reduced volumes. See attached SVOC-TIC Report.
 304 VPH Waters: Indicative results only due to AQC failure: HBD - <10ug/l, HBE - <10ug/l, HBF - <10ug/l, HCD - <10ug/l, HBG - <10ug/l, HBH - <10ug/l, HBJ - <10ug/l, HBK - <10ug/l, HBL - <10ug/l, 08D - <10ug/l, 08L - <10ug/l, 07H - <10ug/l.
 {/*}The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis.{*/}

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.
 Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).
 For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).
 I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:  Name: **C. Law** Date: **04 January 2017**
 Title: **Inorganics Operations Manager**

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Report Number: **COV/1343597/2016**

Issue **2**

Laboratory Number: **15738173**

Sample **12** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW16**

Sample Matrix: **Surface Water**

Sample Date/Time: **08 December 2016**

Sample Received: **08 December 2016**

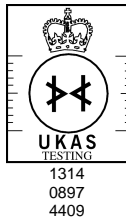
Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	<0.5	mg/l	22/12/2016	N Cov	WAS043
Nitrate as NO3	9.4	mg/l	12/12/2016	Y Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	20/12/2016	N Cov	WAS060
Selenium Ultra Low Total as Se	0.0008	mg/l	20/12/2016	N Cov	WAS060
Arsenic, Ultra Low Total as As	<0.0010	mg/l	20/12/2016	N Cov	WAS060
Fluoride	<1.00	mg/l	29/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Aluminium, Total as Al	<0.1	mg/l	21/12/2016	N Cov	WAS049
Barium, Total as Ba	0.062	mg/l	21/12/2016	N Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	21/12/2016	N Cov	WAS049
Boron, Total as B	<0.23	mg/l	21/12/2016	N Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	21/12/2016	N Cov	WAS049
Calcium , Total as Ca	99.2	mg/l	21/12/2016	N Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	21/12/2016	N Cov	WAS049
Copper, Ultra-low Total as Cu	<1.9	ug/l	20/12/2016	N Cov	WAS060
Iron , Total as Fe	<0.23	mg/l	21/12/2016	N Cov	WAS049
Ferrous Iron	<0.5	mg/l	22/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	22/12/2016	N Cov	WAS043
Lead , Total as Pb	<0.006	mg/l	21/12/2016	N Cov	WAS049
Magnesium, Total as Mg	8.9	mg/l	21/12/2016	N Cov	WAS049
Manganese , Total as Mn	<0.007	mg/l	21/12/2016	N Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	17/12/2016	N Cov	WAS013
Nickel, Total as Ni	<0.003	mg/l	21/12/2016	N Cov	WAS049
Potassium , Total as K	2.05	mg/l	21/12/2016	N Cov	WAS049
Sodium , Total as Na	10.7	mg/l	21/12/2016	N Cov	WAS049
Vanadium , Total as V	<0.004	mg/l	21/12/2016	N Cov	WAS049
Zinc, Total as Zn	<0.018	mg/l	21/12/2016	N Cov	WAS049
pH	8.2	pH units	12/12/2016	N Cov	WAS039
Conductivity- Electrical 20C	519	uS/cm	12/12/2016	N Cov	WAS039
Alkalinity as CaCO3	279	mg/l	12/12/2016	N Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	10/12/2016	N Cov	WAS067

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Report Number: **COV/1343597/2016**
 Laboratory Number: **15738173**

Issue **2**
 Sample **12** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **SW16**
 Sample Matrix: **Surface Water**
 Sample Date/Time: **08 December 2016**
 Sample Received: **08 December 2016**
 Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	22.2	mg/l	10/12/2016	Y Cov	WAS036
Nitrite as N	<0.08	mg/l	10/12/2016	Y Cov	WAS036
Phosphates , Total as P	<0.120	mg/l	21/12/2016	N Cov	WAS049
Sulphate as SO4	24.6	mg/l	10/12/2016	Y Cov	WAS036
BOD + ATU (5 day)	<1	mg/l	19/12/2016	Y Cov	WAS001
COD (Total)	12.0	mg/l	14/12/2016	Y Cov	WAS040
TOC (Filtered)	1.6	mg/l	12/12/2016	N Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	15/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	10/12/2016	N Cov	WAS018
Sulphide as S	<0.020	mg/l	21/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	14/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	03/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	03/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	03/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	16/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	03/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	03/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	03/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	03/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	03/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	03/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	03/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	03/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	03/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	03/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	03/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	03/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	03/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	03/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	03/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	03/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	03/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	03/01/2017	Y Cov	GEO47

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Issue **2**
 Sample **12** of **12**

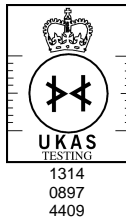
Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **SW16**
 Sample Matrix: **Surface Water**
 Sample Date/Time: **08 December 2016**
 Sample Received: **08 December 2016**
 Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	03/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	03/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	03/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	03/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	03/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	03/01/2017	Y Cov	GEO47
Azinphos-ethyl	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	03/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	03/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	03/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	03/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	03/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	03/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	03/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	21/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	21/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	21/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	24/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	21/12/2016	Y Cov	GEO20

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 Laboratory Number: **15738173**

Issue **2**
 Sample **12** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **SW16**
 Sample Matrix: **Surface Water**
 Sample Date/Time: **08 December 2016**
 Sample Received: **08 December 2016**
 Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	21/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	21/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	24/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	21/12/2016	Y Cov	GEO20
Mecoprop	<0.04	ug/l	21/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	14/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Naphthol	<0.10	ug/l	14/12/2016	N Cov	338
Phenol	<0.10	ug/l	14/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	14/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
VPH >C5 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	15/12/2016	N Cov	GEO46

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Issue **2**
 Sample **12** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **SW16**
 Sample Matrix: **Surface Water**
 Sample Date/Time: **08 December 2016**
 Sample Received: **08 December 2016**
 Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	15/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	Analyst Com	ug/l	15/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	Analyst Com	ug/l	15/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	Analyst Com	ug/l	15/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Anthracene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Chrysene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Fluoranthene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Fluorene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Naphthalene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
Phenanthrene	0.010	ug/l	14/12/2016	Y Cov	GEO19
Pyrene	<0.01	ug/l	14/12/2016	Y Cov	GEO19
PAH, Total	0.010	ug/l	14/12/2016	N Cov	GEO19
SVOC	Y	ug/l	15/12/2016	N Cov	GEO40
Phenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Chlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Methylphenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
3&4-Methylphenol	<4.0	ug/l	15/12/2016	N Cov	GEO40
Dibenzofuran	<4.0	ug/l	15/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40

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Issue **2**
 Sample **12** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **SW16**
 Sample Matrix: **Surface Water**
 Sample Date/Time: **08 December 2016**
 Sample Received: **08 December 2016**
 Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Hexachloroethane	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Nitrobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Isophorone	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Nitrophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Naphthalene	<8.0	ug/l	15/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Dimethylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Acenaphthylene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Acenaphthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Diethylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
4-Nitrophenol	<20.0	ug/l	15/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Fluorene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Diphenylamine	<4.0	ug/l	15/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Hexachlorobenzene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Pentachlorophenol	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Phenanthrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Anthracene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40

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Certificate of Analysis



Report Number: **COV/1343597/2016**
 Laboratory Number: **15738173**

Issue **2**
 Sample **12** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **SW16**
 Sample Matrix: **Surface Water**
 Sample Date/Time: **08 December 2016**
 Sample Received: **08 December 2016**
 Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Pyrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Chrysene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<20.0	ug/l	15/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<4.0	ug/l	15/12/2016	Y Cov	GEO40
2-Fluorophenol	95.1	%Recovery	15/12/2016	N Cov	GEO40
Phenol-d6	76.1	%Recovery	15/12/2016	N Cov	GEO40
Nitrobenzene-d5	83.8	%Recovery	15/12/2016	N Cov	GEO40
2-Fluorobiphenyl	85.1	%Recovery	15/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	74.2	%Recovery	15/12/2016	N Cov	GEO40
Terphenyl-d14	92.1	%Recovery	15/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	12/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	21/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Report Number: **COV/1343597/2016**
 Laboratory Number: **15738173**

Issue **2**
 Sample **12** of **12**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **SW16**
 Sample Matrix: **Surface Water**
 Sample Date/Time: **08 December 2016**
 Sample Received: **08 December 2016**
 Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Benzene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	29/12/2016	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Bromoform	<0.20	ug/l	29/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloroform	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	29/12/2016	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Naphthalene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Report Number: **COV/1343597/2016**
Laboratory Number: **15738173**

Issue **2**
Sample **12** of **12**


Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
Sample Point Description:
Sample Description: **SW16**
Sample Matrix: **Surface Water**
Sample Date/Time: **08 December 2016**
Sample Received: **08 December 2016**
Analysis Complete: **04 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	29/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	29/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Toluene	<0.50	ug/l	29/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	29/12/2016	Y S	SUBCON

Analyst Comments for 15738173:

This sample has been analysed for Pesticides method GEO47, BOD + ATU (5 day), Magnesium, Total as Mg, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba outside recommended stability times. It is therefore possible that the results provided may be compromised. GEO40 SVOC Waters: Raised reporting limits due to insufficient sample as repeat extraction performed due to an original extraction error therefore extraction performed on reduced volumes..See attached SVOC-TIC Report.
304 VPH Waters: Indicative results only due to AQC failure: HBD - <10ug/l, HBE - <10ug/l, HBF - <10ug/l, HCD - <10ug/l, HBG - <10ug/l, HBH - <10ug/l, HBJ - <10ug/l, HBK - <10ug/l, HBL - <10ug/l, 08D - <10ug/l, 08L - <10ug/l, 07H - <10ug/l. {*/}The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis.{*/}.

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.
Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).
For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).
I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:  Name: **C. Law** Date: **04 January 2017**
Title: **Inorganics Operations Manager**

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Mr Downes
SKM Ireland c/o Jacobs
Engineering Ireland
Jacobs
Merrion House
Merrion Road
Dublin 4 South Dublin

10 January 2017

Test Report: COV/1344129/2016

Dear Mr Downes

Analysis of your sample(s) submitted on 09 December 2016 is now complete and we have pleasure in enclosing the appropriate test report(s).

An invoice for the analysis carried out will be sent under separate cover.

Should you have any queries regarding this report(s) or any part of our service, please contact Customer Services on +44 (0)24 7642 1213 who will be happy to discuss your requirements.

If you would like to arrange any further analysis, please contact Customer Services. To arrange container delivery or sample collection, please call the Couriers Department directly on 024 7685 6562.

Thank you for using ALS Environmental Ltd and we look forward to receiving your next samples.

Yours Sincerely,

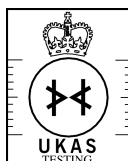
Signed: 

Name: C. Law

Title: Inorganics Operations Manager



Report Summary



1314
0897
4409



Mr Ultan Downes
SKM Ireland c/o Jacobs
Engineering Ireland
Jacobs
Merrion House
Merrion Road
Dublin 4
South Dublin

Date of Issue: **10 January 2017**

Report Number: **COV/1344129/2016**

Issue **2**

Job Description: Kerdiffstown Landfill

Number of Samples
included in this report **7**

Job Received: **09 December 2016**

Number of Test Results
included in this report **1925**

Analysis Commenced: **09 December 2016**

Signed:

Name: **C. Law**

Date: **10 January 2017**

Title: **Inorganics Operations Manager**

ALS Environmental Ltd was not responsible for sampling unless otherwise stated. Sampling is not covered by our UKAS accreditation.

Information on the methods of analysis and performance characteristics are available on request.

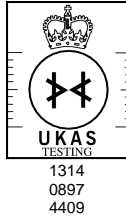
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. The results relate only to the items tested.

Tests marked 'Not UKAS Accredited' in this Report/Certificate are not included in the UKAS Accreditation Schedule for our laboratory.

This communication has been sent to you by ALS Environmental Ltd. Registered in England and Wales. Registration No. 02148934. Registered Office: ALS Environmental Limited, Torrington Avenue, Coventry, CV4 9GU.

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Certificate of Analysis



Report Number: **COV/1344129/2016**

Issue **2**

Laboratory Number: **15741572**

Sample **1** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH6**

Sample Matrix: **Ground Water**

Sample Date/Time: **08 December 2016**

Sample Received: **09 December 2016**

Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	<0.5	mg/l	22/12/2016	N Cov	WAS043
Nitrate as NO3	<3.1	mg/l	13/12/2016	N Cov	WAS036
Antimony Ultra Low Total as Sb	0.0046	mg/l	21/12/2016	Y Cov	WAS060
Selenium Ultra Low Total as Se	0.0012	mg/l	21/12/2016	Y Cov	WAS060
Arsenic, Ultra Low Total as As	0.035	mg/l	21/12/2016	Y Cov	WAS060
Fluoride	0.299	mg/l	16/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Aluminium, Total as Al	14.1	mg/l	23/12/2016	Y Cov	WAS049
Barium, Total as Ba	2.32	mg/l	23/12/2016	Y Cov	WAS049
Beryllium, Total as Be	<0.0210	mg/l	23/12/2016	Y Cov	WAS049
Boron, Total as B	3.94	mg/l	23/12/2016	Y Cov	WAS049
Cadmium , Total as Cd	<0.0060	mg/l	23/12/2016	Y Cov	WAS049
Calcium , Total as Ca	360	mg/l	28/12/2016	Y Cov	WAS049
Chromium , Total as Cr	0.052	mg/l	23/12/2016	Y Cov	WAS049
Copper, Ultra-low Total as Cu	646	ug/l	22/12/2016	Y Cov	WAS060
Iron , Total as Fe	48.7	mg/l	23/12/2016	Y Cov	WAS049
Ferrous Iron	<0.5	mg/l	22/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	22/12/2016	N Cov	WAS043
Lead , Total as Pb	0.621	mg/l	23/12/2016	Y Cov	WAS049
Magnesium, Total as Mg	38.0	mg/l	23/12/2016	Y Cov	WAS049
Manganese , Total as Mn	8.81	mg/l	23/12/2016	Y Cov	WAS049
Mercury, Total as Hg	0.00059	mg/l	19/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.107	mg/l	23/12/2016	Y Cov	WAS049
Potassium , Total as K	13.7	mg/l	23/12/2016	Y Cov	WAS049
Sodium , Total as Na	18.6	mg/l	23/12/2016	Y Cov	WAS049
Vanadium , Total as V	0.093	mg/l	23/12/2016	Y Cov	WAS049
Zinc, Total as Zn	1.86	mg/l	23/12/2016	Y Cov	WAS049
pH	7.5	pH units	19/12/2016	Y Cov	WAS039
Conductivity- Electrical 20C	1010	uS/cm	19/12/2016	Y Cov	WAS039
Alkalinity as CaCO3	965	mg/l	19/12/2016	Y Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	14/12/2016	Y Cov	WAS067

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Report Number: **COV/1344129/2016**

Issue **2**

Laboratory Number: **15741572**

Sample **1** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH6**

Sample Matrix: **Ground Water**

Sample Date/Time: **08 December 2016**

Sample Received: **09 December 2016**

Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	26.0	mg/l	13/12/2016	N Cov	WAS036
Nitrite as N	<0.08	mg/l	13/12/2016	N Cov	WAS036
Phosphates , Total as P	1.9	mg/l	23/12/2016	Y Cov	WAS049
Sulphate as SO4	237	mg/l	13/12/2016	N Cov	WAS036
BOD + ATU (5 day)	2	mg/l	22/12/2016	Y Cov	WAS001
COD (Total)	207	mg/l	14/12/2016	Y Cov	WAS040
TOC (Filtered)	6.6	mg/l	15/12/2016	Y Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	19/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	19/12/2016	N Cov	WAS018
Sulphide as S	<0.020	mg/l	23/12/2016	N Cov	WAS033
Formaldehyde	0.136	mg/l	14/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	04/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	04/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	09/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	19/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	04/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	04/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	04/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	04/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	04/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	04/01/2017	Y Cov	GEO47
Dichlobenil	56	ng/l	04/01/2017	Y Cov	GEO47
Dieldrin	7	ng/l	04/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	04/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	04/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	04/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	04/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	04/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	04/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	04/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	04/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	04/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	04/01/2017	Y Cov	GEO47

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Report Number: **COV/1344129/2016**

Issue **2**

Laboratory Number: **15741572**

Sample **1** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH6**

Sample Matrix: **Ground Water**

Sample Date/Time: **08 December 2016**

Sample Received: **09 December 2016**

Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	04/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	04/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	04/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	04/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	04/01/2017	Y Cov	GEO47
Azinphos-ethyl	Analyst Com	ug/l	10/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	04/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	04/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	04/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	04/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	04/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	04/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	04/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	04/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	04/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	04/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	04/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	04/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	04/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	04/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	23/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	23/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	23/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	23/12/2016	Y Cov	GEO20

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Report Number: **COV/1344129/2016**

Issue **2**

Laboratory Number: **15741572**

Sample **1** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH6**

Sample Matrix: **Ground Water**

Sample Date/Time: **08 December 2016**

Sample Received: **09 December 2016**

Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	23/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	23/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Mecoprop	0.11	ug/l	23/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	14/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Naphthol	<0.10	ug/l	14/12/2016	N Cov	338
Phenol	<0.10	ug/l	14/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	14/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
VPH >C5 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	16/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	16/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	16/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	16/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	16/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	16/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	16/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	16/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	16/12/2016	N Cov	GEO46

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Issue **2**

Laboratory Number: **15741572**

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Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH6**

Sample Matrix: **Ground Water**

Sample Date/Time: **08 December 2016**

Sample Received: **09 December 2016**

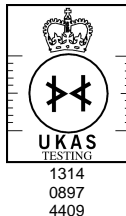
Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	16/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	16/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	16/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	Analyst Com	ug/l	16/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	Analyst Com	ug/l	16/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	Analyst Com	ug/l	16/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Anthracene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Chrysene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Fluoranthene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Fluorene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Naphthalene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Phenanthrene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Pyrene	0.010	ug/l	16/12/2016	Y Cov	GEO19
PAH, Total	0.010	ug/l	16/12/2016	N Cov	GEO19
SVOC	Y	ug/l	16/12/2016	N Cov	GEO40
Phenol	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<1.0	ug/l	16/12/2016	Y Cov	GEO40
2-Chlorophenol	<1.0	ug/l	16/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
2-Methylphenol	<1.0	ug/l	16/12/2016	Y Cov	GEO40
3&4-Methylphenol	<1.0	ug/l	16/12/2016	N Cov	GEO40
Dibenzofuran	<1.0	ug/l	16/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<1.0	ug/l	16/12/2016	Y Cov	GEO40

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Report Number: **COV/1344129/2016**

Issue **2**

Laboratory Number: **15741572**

Sample **1** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH6**

Sample Matrix: **Ground Water**

Sample Date/Time: **08 December 2016**

Sample Received: **09 December 2016**

Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<1.0	ug/l	16/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Hexachloroethane	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Nitrobenzene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Isophorone	<1.0	ug/l	16/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<1.0	ug/l	16/12/2016	Y Cov	GEO40
2-Nitrophenol	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<1.0	ug/l	16/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<1.0	ug/l	16/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Naphthalene	<2.0	ug/l	16/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<1.0	ug/l	16/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<1.0	ug/l	16/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<1.0	ug/l	16/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Dimethylphthalate	<1.0	ug/l	16/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Acenaphthylene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Acenaphthene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Diethylphthalate	<1.0	ug/l	16/12/2016	Y Cov	GEO40
4-Nitrophenol	<5.0	ug/l	16/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Fluorene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Diphenylamine	<1.0	ug/l	16/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Hexachlorobenzene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Pentachlorophenol	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Phenanthrene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Anthracene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<1.0	ug/l	16/12/2016	Y Cov	GEO40

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Report Number: **COV/1344129/2016**
 Laboratory Number: **15741572**

Issue **2**
 Sample **1** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **BH6**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **08 December 2016**
 Sample Received: **09 December 2016**
 Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Pyrene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Chrysene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<5.0	ug/l	16/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
2-Fluorophenol	91.6	%Recovery	16/12/2016	N Cov	GEO40
Phenol-d6	60.1	%Recovery	16/12/2016	N Cov	GEO40
Nitrobenzene-d5	88.3	%Recovery	16/12/2016	N Cov	GEO40
2-Fluorobiphenyl	86.6	%Recovery	16/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	75.5	%Recovery	16/12/2016	N Cov	GEO40
Terphenyl-d14	94.2	%Recovery	16/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	15/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	23/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Report Number: **COV/1344129/2016**

Issue **2**

Laboratory Number: **15741572**

Sample **1** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH6**

Sample Matrix: **Ground Water**

Sample Date/Time: **08 December 2016**

Sample Received: **09 December 2016**

Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Benzene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	29/12/2016	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Bromoform	<0.20	ug/l	29/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloroform	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	29/12/2016	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Naphthalene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Report Number: **COV/1344129/2016**

Issue **2**

Laboratory Number: **15741572**

Sample **1** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH6**

Sample Matrix: **Ground Water**

Sample Date/Time: **08 December 2016**

Sample Received: **09 December 2016**

Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	29/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	29/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Toluene	<0.50	ug/l	29/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	29/12/2016	Y S	SUBCON

Analyst Comments for 15741572:

This sample has been analysed for Pesticides method GEO47, pH, BOD + ATU (5 day), Nitrite as N, Magnesium, Total as Mg, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba, Nitrate as NO3 outside recommended stability times. It is therefore possible that the results provided may be compromised.

VPH Waters: Indicative results only due to AQC failure: VPH >C5-C10 - <10ug/l, Aliphatic >C5-C6 - <10ug/l, Aliphatic >C6-C8 - <10ug/l, - Aliphatic >C5-C10 <10ug/l, Aromatic >C5-C7 - <10ug/l, Aromatic >C7-C8 - <10ug/l, Aromatic >C8-C10 - <10ug/l, Aromatic >C5-C10 - <10ug/l. VPH/EPH Totals: Aliphatic >C5-C44 - <10ug/L, Aromatic >C5-C44 - <10ug/L, VPH/EPH - <10ug/L.

{/*}The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-feric ratio between sampling and analysis.{*/}

The reporting limit has been raised for metals due to interference with the internal standard.

AQC failure for Azinphos-Ethyl, unable to indicate.

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **C. Law**

Date: **10 January 2017**

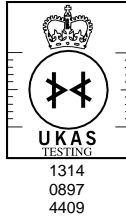
Title: **Inorganics Operations Manager**

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Page 10 of 64

Certificate of Analysis



Report Number: **COV/1344129/2016**

Issue **2**

Laboratory Number: **15741573**

Sample **2** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH7**

Sample Matrix: **Ground Water**

Sample Date/Time: **08 December 2016**

Sample Received: **09 December 2016**

Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	<0.5	mg/l	22/12/2016	N Cov	WAS043
Nitrate as NO3	<3.1	mg/l	13/12/2016	N Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	21/12/2016	Y Cov	WAS060
Selenium Ultra Low Total as Se	0.0015	mg/l	21/12/2016	Y Cov	WAS060
Arsenic, Ultra Low Total as As	0.015	mg/l	21/12/2016	Y Cov	WAS060
Fluoride	0.432	mg/l	16/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Aluminium, Total as Al	16.8	mg/l	23/12/2016	Y Cov	WAS049
Barium, Total as Ba	0.674	mg/l	23/12/2016	Y Cov	WAS049
Beryllium, Total as Be	<0.0420	mg/l	23/12/2016	Y Cov	WAS049
Boron, Total as B	5.04	mg/l	23/12/2016	Y Cov	WAS049
Cadmium , Total as Cd	0.0217	mg/l	23/12/2016	Y Cov	WAS049
Calcium , Total as Ca	1290	mg/l	29/12/2016	Y Cov	WAS049
Chromium , Total as Cr	<0.040	mg/l	23/12/2016	Y Cov	WAS049
Copper, Ultra-low Total as Cu	226	ug/l	22/12/2016	Y Cov	WAS060
Iron , Total as Fe	27.0	mg/l	23/12/2016	Y Cov	WAS049
Ferrous Iron	<0.5	mg/l	22/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	22/12/2016	N Cov	WAS043
Lead , Total as Pb	0.158	mg/l	23/12/2016	Y Cov	WAS049
Magnesium, Total as Mg	65.5	mg/l	23/12/2016	Y Cov	WAS049
Manganese , Total as Mn	10.3	mg/l	23/12/2016	Y Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	19/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.189	mg/l	23/12/2016	Y Cov	WAS049
Potassium , Total as K	21.0	mg/l	23/12/2016	Y Cov	WAS049
Sodium , Total as Na	30.5	mg/l	23/12/2016	Y Cov	WAS049
Vanadium , Total as V	<0.080	mg/l	23/12/2016	Y Cov	WAS049
Zinc, Total as Zn	0.610	mg/l	23/12/2016	Y Cov	WAS049
pH	7.6	pH units	19/12/2016	Y Cov	WAS039
Conductivity- Electrical 20C	750	uS/cm	19/12/2016	Y Cov	WAS039
Alkalinity as CaCO3	2220	mg/l	23/12/2016	Y Cov	WAS025
Ammoniacal Nitrogen as N (LL)	0.64	mg/l	14/12/2016	Y Cov	WAS067

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Report Number: **COV/1344129/2016**

Issue **2**

Laboratory Number: **15741573**

Sample **2** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH7**

Sample Matrix: **Ground Water**

Sample Date/Time: **08 December 2016**

Sample Received: **09 December 2016**

Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	64.7	mg/l	13/12/2016	N Cov	WAS036
Nitrite as N	<0.08	mg/l	13/12/2016	N Cov	WAS036
Phosphates , Total as P	4.1	mg/l	23/12/2016	Y Cov	WAS049
Sulphate as SO4	167	mg/l	13/12/2016	N Cov	WAS036
BOD + ATU (5 day)	1	mg/l	22/12/2016	Y Cov	WAS001
COD (Total)	21.0	mg/l	14/12/2016	Y Cov	WAS040
TOC (Filtered)	5.8	mg/l	15/12/2016	Y Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	19/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	19/12/2016	N Cov	WAS018
Sulphide as S	9.90	mg/l	23/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	14/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	04/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	04/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	09/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	19/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	04/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	04/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	04/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	04/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	04/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	04/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	04/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	04/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	04/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	04/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	04/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	04/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	04/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	04/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	04/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	04/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	04/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	04/01/2017	Y Cov	GEO47

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Issue **2**

Laboratory Number: **15741573**

Sample **2** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH7**

Sample Matrix: **Ground Water**

Sample Date/Time: **08 December 2016**

Sample Received: **09 December 2016**

Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	04/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	04/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	04/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	04/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	04/01/2017	Y Cov	GEO47
Azinphos-ethyl	Analyst Com	ug/l	10/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	04/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	04/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	04/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	04/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	04/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	04/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	04/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	04/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	04/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	04/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	04/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	04/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	04/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	04/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	23/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	23/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	23/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	23/12/2016	Y Cov	GEO20

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Sample **2** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH7**

Sample Matrix: **Ground Water**

Sample Date/Time: **08 December 2016**

Sample Received: **09 December 2016**

Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	23/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	23/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Mecoprop	0.05	ug/l	23/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	14/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Naphthol	<0.10	ug/l	14/12/2016	N Cov	338
Phenol	<0.10	ug/l	14/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	14/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
VPH >C5 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	16/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	16/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	12	ug/l	16/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	16/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	12	ug/l	16/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	16/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	16/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	16/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	16/12/2016	N Cov	GEO46

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Issue **2**

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Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH7**

Sample Matrix: **Ground Water**

Sample Date/Time: **08 December 2016**

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Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	16/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	16/12/2016	N Cov	GEO46
EPH >C10 - C44	12	ug/l	16/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	Analyst Com	ug/l	16/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	Analyst Com	ug/l	16/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	Analyst Com	ug/l	16/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Anthracene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Chrysene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Fluoranthene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Fluorene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Naphthalene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Phenanthrene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Pyrene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
PAH, Total	<0.01	ug/l	16/12/2016	N Cov	GEO19
SVOC	Y	ug/l	16/12/2016	N Cov	GEO40
Phenol	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<1.0	ug/l	16/12/2016	Y Cov	GEO40
2-Chlorophenol	<1.0	ug/l	16/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
2-Methylphenol	<1.0	ug/l	16/12/2016	Y Cov	GEO40
3&4-Methylphenol	<1.0	ug/l	16/12/2016	N Cov	GEO40
Dibenzofuran	<1.0	ug/l	16/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<1.0	ug/l	16/12/2016	Y Cov	GEO40

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Sample **2** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH7**

Sample Matrix: **Ground Water**

Sample Date/Time: **08 December 2016**

Sample Received: **09 December 2016**

Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<1.0	ug/l	16/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Hexachloroethane	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Nitrobenzene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Isophorone	<1.0	ug/l	16/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<1.0	ug/l	16/12/2016	Y Cov	GEO40
2-Nitrophenol	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<1.0	ug/l	16/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<1.0	ug/l	16/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Naphthalene	<2.0	ug/l	16/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<1.0	ug/l	16/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<1.0	ug/l	16/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<1.0	ug/l	16/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Dimethylphthalate	<1.0	ug/l	16/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Acenaphthylene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Acenaphthene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Diethylphthalate	<1.0	ug/l	16/12/2016	Y Cov	GEO40
4-Nitrophenol	<5.0	ug/l	16/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Fluorene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Diphenylamine	<1.0	ug/l	16/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Hexachlorobenzene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Pentachlorophenol	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Phenanthrene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Anthracene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<1.0	ug/l	16/12/2016	Y Cov	GEO40

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Issue **2**
 Sample **2** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **BH7**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **08 December 2016**
 Sample Received: **09 December 2016**
 Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Pyrene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Chrysene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<5.0	ug/l	16/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
2-Fluorophenol	104.9	%Recovery	16/12/2016	N Cov	GEO40
Phenol-d6	73.2	%Recovery	16/12/2016	N Cov	GEO40
Nitrobenzene-d5	91.1	%Recovery	16/12/2016	N Cov	GEO40
2-Fluorobiphenyl	88.7	%Recovery	16/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	81.0	%Recovery	16/12/2016	N Cov	GEO40
Terphenyl-d14	94.5	%Recovery	16/12/2016	N Cov	GEO40
Nitrite as NO2	<0.28	mg/l	15/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	23/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Issue **2**

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Sample **2** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH7**

Sample Matrix: **Ground Water**

Sample Date/Time: **08 December 2016**

Sample Received: **09 December 2016**

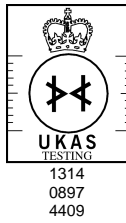
Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Benzene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	29/12/2016	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Bromoform	<0.20	ug/l	29/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloroform	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	29/12/2016	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Naphthalene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Report Number: **COV/1344129/2016**

Issue **2**

Laboratory Number: **15741573**

Sample **2** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH7**

Sample Matrix: **Ground Water**

Sample Date/Time: **08 December 2016**

Sample Received: **09 December 2016**


Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	29/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	29/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Toluene	<0.50	ug/l	29/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	29/12/2016	Y S	SUBCON

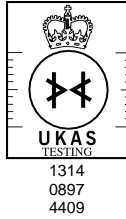
Analyst Comments for 15741573:

This sample has been analysed for Pesticides method GEO47, pH, BOD + ATU (5 day), Nitrite as N, Calcium Total as Ca, Magnesium, Total as Mg, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba, Nitrate as NO3 outside recommended stability times. It is therefore possible that the results provided may be compromised.
 VPH: Indicative results due to AQC failure: VPH >C5-10 <10ug/l, Ali >C5-6 <10ug/l, Ali >C6-8 <10ug/l, - Ali >C5-10 <10ug/l, Aro >C5-7 <10ug/l, Aro >C7-8 <10ug/l, Aro >C8-10 <10ug/l, Aro >C5-10 <10ug/l.
 VPH/EPH Totals: Ali 12ug/L, Aro <10ug/L, VPH/EPH<12ug/L.
 The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis.
 Reporting limit has been raised for metals due to interference with the internal standard
 Integrity breach between electrical conductivity and calcium, results confirmed by repeat analysis.
 AQC failure for Azinphos-Ethyl, unable to indicate.

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.
 Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).
 For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).
 I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:  Name: **C. Law** Date: **10 January 2017**
 Title: **Inorganics Operations Manager**

Certificate of Analysis



Report Number: **COV/1344129/2016**

Issue **2**

Laboratory Number: **15741574**

Sample **3** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **GW25**

Sample Matrix: **Ground Water**

Sample Date/Time: **08 December 2016**

Sample Received: **09 December 2016**

Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	<0.5	mg/l	22/12/2016	N Cov	WAS043
Nitrate as NO3	<3.1	mg/l	13/12/2016	N Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	21/12/2016	Y Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	21/12/2016	Y Cov	WAS060
Arsenic, Ultra Low Total as As	<0.0010	mg/l	21/12/2016	Y Cov	WAS060
Fluoride	0.053	mg/l	16/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Aluminium, Total as Al	<0.1	mg/l	21/12/2016	Y Cov	WAS049
Barium, Total as Ba	0.016	mg/l	21/12/2016	Y Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	21/12/2016	Y Cov	WAS049
Boron, Total as B	<0.23	mg/l	21/12/2016	Y Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	21/12/2016	Y Cov	WAS049
Calcium , Total as Ca	21.4	mg/l	21/12/2016	Y Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	21/12/2016	Y Cov	WAS049
Copper, Ultra-low Total as Cu	<1.9	ug/l	21/12/2016	Y Cov	WAS060
Iron , Total as Fe	0.60	mg/l	21/12/2016	Y Cov	WAS049
Ferrous Iron	<0.5	mg/l	22/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	22/12/2016	N Cov	WAS043
Lead , Total as Pb	<0.006	mg/l	21/12/2016	Y Cov	WAS049
Magnesium, Total as Mg	10.7	mg/l	21/12/2016	Y Cov	WAS049
Manganese , Total as Mn	0.061	mg/l	21/12/2016	Y Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	19/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.003	mg/l	21/12/2016	Y Cov	WAS049
Potassium , Total as K	2.15	mg/l	21/12/2016	Y Cov	WAS049
Sodium , Total as Na	15.6	mg/l	21/12/2016	Y Cov	WAS049
Vanadium , Total as V	<0.004	mg/l	21/12/2016	Y Cov	WAS049
Zinc, Total as Zn	<0.018	mg/l	21/12/2016	Y Cov	WAS049
pH	8.2	pH units	19/12/2016	Y Cov	WAS039
Conductivity- Electrical 20C	238	uS/cm	19/12/2016	Y Cov	WAS039
Alkalinity as CaCO3	104	mg/l	19/12/2016	Y Cov	WAS025
Ammoniacal Nitrogen as N (LL)	0.32	mg/l	14/12/2016	Y Cov	WAS067

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Report Number: **COV/1344129/2016**

Issue **2**

Laboratory Number: **15741574**

Sample **3** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **GW25**

Sample Matrix: **Ground Water**

Sample Date/Time: **08 December 2016**

Sample Received: **09 December 2016**

Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	31.8	mg/l	13/12/2016	N Cov	WAS036
Nitrite as N	<0.08	mg/l	13/12/2016	N Cov	WAS036
Phosphates , Total as P	<0.120	mg/l	21/12/2016	Y Cov	WAS049
Sulphate as SO4	<4.4	mg/l	13/12/2016	N Cov	WAS036
BOD + ATU (5 day)	1	mg/l	22/12/2016	Y Cov	WAS001
COD (Total)	<11.0	mg/l	14/12/2016	Y Cov	WAS040
TOC (Filtered)	1.9	mg/l	15/12/2016	Y Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	19/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	19/12/2016	N Cov	WAS018
Sulphide as S	<0.020	mg/l	23/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	14/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	04/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	04/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	09/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	19/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	04/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	04/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	04/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	04/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	04/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	04/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	04/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	04/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	04/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	04/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	04/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	04/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	04/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	04/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	04/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	04/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	04/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	04/01/2017	Y Cov	GEO47

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Report Number: **COV/1344129/2016**

Issue **2**

Laboratory Number: **15741574**

Sample **3** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **GW25**

Sample Matrix: **Ground Water**

Sample Date/Time: **08 December 2016**

Sample Received: **09 December 2016**

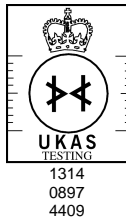
Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	04/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	04/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	04/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	04/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	04/01/2017	Y Cov	GEO47
Azinphos-ethyl	Analyst Com	ug/l	10/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	04/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	04/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	04/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	04/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	04/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	04/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	04/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	04/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	04/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	04/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	04/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	04/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	04/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	04/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	23/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	23/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	23/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	23/12/2016	Y Cov	GEO20

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Issue **2**

Laboratory Number: **15741574**

Sample **3** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **GW25**

Sample Matrix: **Ground Water**

Sample Date/Time: **08 December 2016**

Sample Received: **09 December 2016**

Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	23/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	23/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Mecoprop	0.05	ug/l	23/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	14/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Naphthol	<0.10	ug/l	14/12/2016	N Cov	338
Phenol	<0.10	ug/l	14/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	14/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
VPH >C5 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	16/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	16/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	16/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	16/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	16/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	16/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	16/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	16/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	16/12/2016	N Cov	GEO46

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Issue **2**

Laboratory Number: **15741574**

Sample **3** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **GW25**

Sample Matrix: **Ground Water**

Sample Date/Time: **08 December 2016**

Sample Received: **09 December 2016**

Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	16/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	16/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	16/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	Analyst Com	ug/l	16/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	Analyst Com	ug/l	16/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	Analyst Com	ug/l	16/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Anthracene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Chrysene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Fluoranthene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Fluorene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Naphthalene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Phenanthrene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Pyrene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
PAH, Total	<0.01	ug/l	16/12/2016	N Cov	GEO19
SVOC	Y	ug/l	16/12/2016	N Cov	GEO40
Phenol	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<1.0	ug/l	16/12/2016	Y Cov	GEO40
2-Chlorophenol	<1.0	ug/l	16/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
2-Methylphenol	<1.0	ug/l	16/12/2016	Y Cov	GEO40
3&4-Methylphenol	<1.0	ug/l	16/12/2016	N Cov	GEO40
Dibenzofuran	<1.0	ug/l	16/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<1.0	ug/l	16/12/2016	Y Cov	GEO40

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Issue **2**

Laboratory Number: **15741574**

Sample **3** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **GW25**

Sample Matrix: **Ground Water**

Sample Date/Time: **08 December 2016**

Sample Received: **09 December 2016**

Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<1.0	ug/l	16/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Hexachloroethane	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Nitrobenzene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Isophorone	<1.0	ug/l	16/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<1.0	ug/l	16/12/2016	Y Cov	GEO40
2-Nitrophenol	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<1.0	ug/l	16/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<1.0	ug/l	16/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Naphthalene	<2.0	ug/l	16/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<1.0	ug/l	16/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<1.0	ug/l	16/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<1.0	ug/l	16/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Dimethylphthalate	<1.0	ug/l	16/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Acenaphthylene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Acenaphthene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Diethylphthalate	<1.0	ug/l	16/12/2016	Y Cov	GEO40
4-Nitrophenol	<5.0	ug/l	16/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Fluorene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Diphenylamine	<1.0	ug/l	16/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Hexachlorobenzene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Pentachlorophenol	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Phenanthrene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Anthracene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<1.0	ug/l	16/12/2016	Y Cov	GEO40

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Report Number: **COV/1344129/2016**
 Laboratory Number: **15741574**

Issue **2**
 Sample **3** of **7**

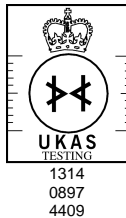
Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **GW25**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **08 December 2016**
 Sample Received: **09 December 2016**
 Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Pyrene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Chrysene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<5.0	ug/l	16/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<1.0	ug/l	16/12/2016	Y Cov	GEO40
2-Fluorophenol	100.5	%Recovery	16/12/2016	N Cov	GEO40
Phenol-d6	70.9	%Recovery	16/12/2016	N Cov	GEO40
Nitrobenzene-d5	95.3	%Recovery	16/12/2016	N Cov	GEO40
2-Fluorobiphenyl	92.8	%Recovery	16/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	76.6	%Recovery	16/12/2016	N Cov	GEO40
Terphenyl-d14	85.8	%Recovery	16/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	15/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	23/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Report Number: **COV/1344129/2016**

Issue **2**

Laboratory Number: **15741574**

Sample **3** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **GW25**

Sample Matrix: **Ground Water**

Sample Date/Time: **08 December 2016**

Sample Received: **09 December 2016**

Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Benzene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	29/12/2016	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Bromoform	<0.20	ug/l	29/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloroform	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	29/12/2016	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Naphthalene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Report Number: **COV/1344129/2016**
 Laboratory Number: **15741574**

Issue **2**
 Sample **3** of **7**


Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **GW25**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **08 December 2016**
 Sample Received: **09 December 2016**
 Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	29/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	29/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Toluene	<0.50	ug/l	29/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	29/12/2016	Y S	SUBCON

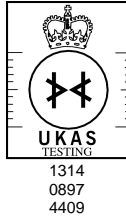
Analyst Comments for 15741574:

This sample has been analysed for Pesticides method GEO47, pH, BOD + ATU (5 day), Nitrite as N, Magnesium, Total as Mg, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba, Nitrate as NO3 outside recommended stability times. It is therefore possible that the results provided may be compromised.
 VPH Waters: Indicative results only due to AQC failure: VPH >C5-C10 - <10ug/l, Aliphatic >C5-C6 - <10ug/l, Aliphatic >C6-C8 - <10ug/l, - Aliphatic >C5-C10 <10ug/l, Aromatic >C5-C7 - <10ug/l, Aromatic >C7-C8- <10ug/l, Aromatic >C8-C10 - <10ug/l, Aromatic >C5-C10- <10ug/l. VPH/EPH Totals: Aliphatic >C5-C44 - <10ug/L, Aromatic >C5-C44 - <10ug/L, VPH/EPH- <10ug/L.
 GEO40 SVOC Waters: See attached SVOC-TIC Report. {*/}The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis.{*/}.
 AQC failure for Azinphos-Ethyl is unable to indicate.

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.
 Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).
 For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).
 I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:  Name: **C. Law** Date: **10 January 2017**
 Title: **Inorganics Operations Manager**

Certificate of Analysis



Report Number: **COV/1344129/2016**

Issue **2**

Laboratory Number: **15741575**

Sample **4** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW13**

Sample Matrix: **Ground Water**

Sample Date/Time: **09 December 2016**

Sample Received: **09 December 2016**

Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	10.5	mg/l	22/12/2016	N Cov	WAS043
Nitrate as NO3	5.9	mg/l	12/12/2016	N Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	21/12/2016	Y Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	21/12/2016	Y Cov	WAS060
Arsenic, Ultra Low Total as As	0.013	mg/l	21/12/2016	Y Cov	WAS060
Fluoride	0.534	mg/l	16/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Aluminium, Total as Al	0.7	mg/l	21/12/2016	Y Cov	WAS049
Barium, Total as Ba	0.495	mg/l	21/12/2016	Y Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	21/12/2016	Y Cov	WAS049
Boron, Total as B	2.01	mg/l	21/12/2016	Y Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	21/12/2016	Y Cov	WAS049
Calcium , Total as Ca	216	mg/l	21/12/2016	Y Cov	WAS049
Chromium , Total as Cr	0.008	mg/l	21/12/2016	Y Cov	WAS049
Copper, Ultra-low Total as Cu	9.1	ug/l	21/12/2016	Y Cov	WAS060
Iron , Total as Fe	12.5	mg/l	21/12/2016	Y Cov	WAS049
Ferrous Iron	10.1	mg/l	22/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	22/12/2016	N Cov	WAS043
Lead , Total as Pb	0.010	mg/l	21/12/2016	Y Cov	WAS049
Magnesium, Total as Mg	54.4	mg/l	21/12/2016	Y Cov	WAS049
Manganese , Total as Mn	1.17	mg/l	21/12/2016	Y Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	19/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.038	mg/l	21/12/2016	Y Cov	WAS049
Potassium , Total as K	82.4	mg/l	21/12/2016	Y Cov	WAS049
Sodium , Total as Na	204	mg/l	21/12/2016	Y Cov	WAS049
Vanadium , Total as V	0.006	mg/l	21/12/2016	Y Cov	WAS049
Zinc, Total as Zn	0.127	mg/l	21/12/2016	Y Cov	WAS049
pH	7.0	pH units	12/12/2016	Y Cov	WAS039
Conductivity- Electrical 20C	2440	uS/cm	12/12/2016	Y Cov	WAS039
Alkalinity as CaCO3	1630	mg/l	20/12/2016	Y Cov	WAS025
Ammoniacal Nitrogen as N	165	mg/l	15/12/2016	N Cov	WAS036

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Report Number: **COV/1344129/2016**

Issue **2**

Laboratory Number: **15741575**

Sample **4** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW13**

Sample Matrix: **Ground Water**

Sample Date/Time: **09 December 2016**

Sample Received: **09 December 2016**

Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	221	mg/l	12/12/2016	N Cov	WAS036
Nitrite as N	<0.08	mg/l	12/12/2016	N Cov	WAS036
Phosphates , Total as P	0.29	mg/l	21/12/2016	Y Cov	WAS049
Sulphate as SO4	78.6	mg/l	12/12/2016	N Cov	WAS036
BOD + ATU (5 day)	10	mg/l	16/12/2016	Y Cov	WAS001
COD (Total)	325	mg/l	16/12/2016	Y Cov	WAS040
TOC (Filtered)	80.0	mg/l	15/12/2016	Y Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	19/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	19/12/2016	N Cov	WAS018
Sulphide as S	<0.020	mg/l	23/12/2016	N Cov	WAS033
Formaldehyde	0.053	mg/l	14/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	04/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	04/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	09/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	19/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	04/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	04/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	04/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	04/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	04/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	04/01/2017	Y Cov	GEO47
Dichlobenil	27	ng/l	04/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	04/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	04/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	04/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	04/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	04/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	04/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	04/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	04/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	04/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	04/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	04/01/2017	Y Cov	GEO47

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Report Number: **COV/1344129/2016**

Issue **2**

Laboratory Number: **15741575**

Sample **4** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW13**

Sample Matrix: **Ground Water**

Sample Date/Time: **09 December 2016**

Sample Received: **09 December 2016**

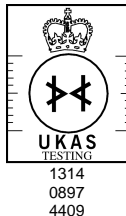
Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	04/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	04/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	04/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	04/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	04/01/2017	Y Cov	GEO47
Azinphos-ethyl	Analyst Com	ug/l	10/01/2017	Y Cov	GEO47
Azinphos-methyl	0.006	ug/l	04/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	04/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	04/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	04/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	04/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	04/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	04/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	04/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	04/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	04/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	04/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	04/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	04/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	04/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
2,3,6 - TBA	<5.00	ug/l	28/12/2016	Y Cov	GEO20
2,4 - D	<5.00	ug/l	28/12/2016	Y Cov	GEO20
2,4 - DB	<5.00	ug/l	28/12/2016	Y Cov	GEO20
2,4,5 - T	<5.00	ug/l	28/12/2016	Y Cov	GEO20
Benazolin	<5.00	ug/l	28/12/2016	Y Cov	GEO20
Bentazone	<5.00	ug/l	28/12/2016	Y Cov	GEO20
Chlopyralid	<5.00	ug/l	28/12/2016	Y Cov	GEO20
Bromoxynil	<5.00	ug/l	28/12/2016	Y Cov	GEO20

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Report Number: **COV/1344129/2016**

Issue **2**

Laboratory Number: **15741575**

Sample **4** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW13**

Sample Matrix: **Ground Water**

Sample Date/Time: **09 December 2016**

Sample Received: **09 December 2016**

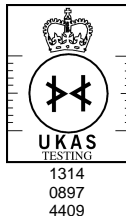
Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<5.00	ug/l	28/12/2016	Y Cov	GEO20
Dichlorprop	<5.00	ug/l	28/12/2016	Y Cov	GEO20
Fenoprop	<5.00	ug/l	28/12/2016	Y Cov	GEO20
Ioxynil	<5.00	ug/l	28/12/2016	Y Cov	GEO20
MCPA	<5.00	ug/l	28/12/2016	Y Cov	GEO20
MCPB	<5.00	ug/l	28/12/2016	Y Cov	GEO20
Triclopyr	<5.00	ug/l	28/12/2016	Y Cov	GEO20
Mecoprop	14.4	ug/l	28/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	16/12/2016	N Cov	338
Cresol, Total	0.48	ug/l	16/12/2016	N Cov	338
Xylenol, Total	18	ug/l	16/12/2016	N Cov	338
Naphthol	<0.10	ug/l	16/12/2016	N Cov	338
Phenol	1.5	ug/l	16/12/2016	N Cov	338
Trimethylphenol, Total	78	ug/l	16/12/2016	N Cov	338
Phenols, Total	98	ug/l	16/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
VPH >C5 - C10	Analyst Com	ug/l	15/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	16/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	16/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	16/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	16/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	16/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	16/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	16/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	16/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	16/12/2016	N Cov	GEO46

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Issue **2**

Laboratory Number: **15741575**

Sample **4** of **7**

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Sample Point Description:

Sample Description: **EMW13**

Sample Matrix: **Ground Water**

Sample Date/Time: **09 December 2016**

Sample Received: **09 December 2016**

Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	16/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	16/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	16/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	Analyst Com	ug/l	16/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	Analyst Com	ug/l	16/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	Analyst Com	ug/l	16/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.04	ug/l	16/12/2016	Y Cov	GEO19
Acenaphthylene	<0.04	ug/l	16/12/2016	Y Cov	GEO19
Anthracene	<0.04	ug/l	16/12/2016	Y Cov	GEO19
Benzo (a) anthracene	<0.04	ug/l	16/12/2016	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.04	ug/l	16/12/2016	Y Cov	GEO19
Benzo (a) pyrene	<0.04	ug/l	16/12/2016	Y Cov	GEO19
Benzo (b) fluoranthene	<0.04	ug/l	16/12/2016	Y Cov	GEO19
Benzo (k) fluoranthene	<0.04	ug/l	16/12/2016	Y Cov	GEO19
Chrysene	<0.04	ug/l	16/12/2016	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.04	ug/l	16/12/2016	Y Cov	GEO19
Fluoranthene	<0.04	ug/l	16/12/2016	Y Cov	GEO19
Fluorene	<0.04	ug/l	16/12/2016	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.04	ug/l	16/12/2016	Y Cov	GEO19
Naphthalene	<0.04	ug/l	16/12/2016	Y Cov	GEO19
Phenanthrene	<0.04	ug/l	16/12/2016	Y Cov	GEO19
Pyrene	<0.04	ug/l	16/12/2016	Y Cov	GEO19
PAH, Total	<0.04	ug/l	16/12/2016	N Cov	GEO19
SVOC	Y	ug/l	18/12/2016	N Cov	GEO40
Phenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
3&4-Methylphenol	<1.0	ug/l	18/12/2016	N Cov	GEO40
Dibenzofuran	<1.0	ug/l	18/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40

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Issue **2**

Laboratory Number: **15741575**

Sample **4** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW13**

Sample Matrix: **Ground Water**

Sample Date/Time: **09 December 2016**

Sample Received: **09 December 2016**

Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachloroethane	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Nitrobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Isophorone	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Nitrophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Naphthalene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Dimethylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthylene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Diethylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
4-Nitrophenol	<5.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Fluorene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Diphenylamine	<1.0	ug/l	18/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Pentachlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Phenanthrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40

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Report Number: **COV/1344129/2016**
 Laboratory Number: **15741575**

Issue **2**
 Sample **4** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW13**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **09 December 2016**
 Sample Received: **09 December 2016**
 Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Chrysene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<5.0	ug/l	18/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Fluorophenol	84.1	%Recovery	18/12/2016	N Cov	GEO40
Phenol-d6	83.8	%Recovery	18/12/2016	N Cov	GEO40
Nitrobenzene-d5	78.7	%Recovery	18/12/2016	N Cov	GEO40
2-Fluorobiphenyl	80.5	%Recovery	18/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	96.6	%Recovery	18/12/2016	N Cov	GEO40
Terphenyl-d14	81.8	%Recovery	18/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	15/12/2016	N Cov	WAS036
Fluoroxypyr	<5.00	ug/l	28/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Report Number: **COV/1344129/2016**

Issue **2**

Laboratory Number: **15741575**

Sample **4** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW13**

Sample Matrix: **Ground Water**

Sample Date/Time: **09 December 2016**

Sample Received: **09 December 2016**

Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Benzene	1.18	ug/l	29/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	29/12/2016	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Bromoform	<0.20	ug/l	29/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chlorobenzene	0.12	ug/l	29/12/2016	Y S	SUBCON
Chloroform	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	0.12	ug/l	29/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	29/12/2016	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Naphthalene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Report Number: **COV/1344129/2016**

Issue **2**

Laboratory Number: **15741575**

Sample **4** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW13**

Sample Matrix: **Ground Water**

Sample Date/Time: **09 December 2016**

Sample Received: **09 December 2016**

Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	29/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	29/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Toluene	0.51	ug/l	29/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Vinyl Chloride	0.18	ug/l	29/12/2016	Y S	SUBCON

Analyst Comments for 15741575:

This sample has been analysed for Pesticides method GEO47, Magnesium, Total as Mg, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba outside recommended stability times. It is therefore possible that the results provided may be compromised.

VPH Waters: Indicative results only due to AQC failure: VPH >C5-C10 <10ug/l, Ali>C5-C6 <10ug/l, Ali>C6-C8 <10ug/l, Ali>C5-C10 <10ug/l, Aro >C5-C7 <10ug/l, Aro>C7-C8 <10ug/l, Aro>C8-C10 <10ug/l, Aro>C5-C10-<10ug/l. VPH/EPH Totals: Ali >C5-C44 <10ug/L, Aro >C5-C44 <10ug/L, VPH/EPH <10ug/L. Low surrogate recovery due to sample matrix interference.

Reporting limits raised for PAH due to nature of sample matrix.

{/*}The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferrous ratio between sampling and analysis.{*/} Reporting limits raised for Acid Herbicides due to nature of sample matrix.

AQC failure for Azinphos-Ethyl is unable to indicate.

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **C. Law**

Date: **10 January 2017**

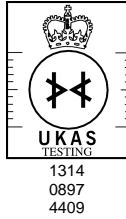
Title: **Inorganics Operations Manager**

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Page 37 of 64

Certificate of Analysis



Report Number: **COV/1344129/2016**

Issue **2**

Laboratory Number: **15741576**

Sample **5** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW18**

Sample Matrix: **Ground Water**

Sample Date/Time: **09 December 2016**

Sample Received: **09 December 2016**

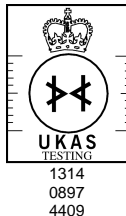
Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	3.1	mg/l	22/12/2016	N Cov	WAS043
Nitrate as NO3	<3.1	mg/l	12/12/2016	N Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	21/12/2016	Y Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	21/12/2016	Y Cov	WAS060
Arsenic, Ultra Low Total as As	0.0072	mg/l	21/12/2016	Y Cov	WAS060
Fluoride	0.127	mg/l	16/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Aluminium, Total as Al	<0.1	mg/l	21/12/2016	Y Cov	WAS049
Barium, Total as Ba	0.082	mg/l	21/12/2016	Y Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	21/12/2016	Y Cov	WAS049
Boron, Total as B	<0.23	mg/l	21/12/2016	Y Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	21/12/2016	Y Cov	WAS049
Calcium , Total as Ca	89.3	mg/l	21/12/2016	Y Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	21/12/2016	Y Cov	WAS049
Copper, Ultra-low Total as Cu	<1.9	ug/l	21/12/2016	Y Cov	WAS060
Iron , Total as Fe	3.55	mg/l	21/12/2016	Y Cov	WAS049
Ferrous Iron	3.1	mg/l	22/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	22/12/2016	N Cov	WAS043
Lead , Total as Pb	<0.006	mg/l	21/12/2016	Y Cov	WAS049
Magnesium, Total as Mg	7.7	mg/l	21/12/2016	Y Cov	WAS049
Manganese , Total as Mn	0.824	mg/l	21/12/2016	Y Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	19/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.005	mg/l	21/12/2016	Y Cov	WAS049
Potassium , Total as K	1.06	mg/l	21/12/2016	Y Cov	WAS049
Sodium , Total as Na	8.74	mg/l	21/12/2016	Y Cov	WAS049
Vanadium , Total as V	<0.004	mg/l	21/12/2016	Y Cov	WAS049
Zinc, Total as Zn	<0.018	mg/l	21/12/2016	Y Cov	WAS049
pH	7.6	pH units	12/12/2016	Y Cov	WAS039
Conductivity- Electrical 20C	446	uS/cm	12/12/2016	Y Cov	WAS039
Alkalinity as CaCO3	279	mg/l	20/12/2016	Y Cov	WAS025
Ammoniacal Nitrogen as N (LL)	0.44	mg/l	14/12/2016	Y Cov	WAS067

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Report Number: **COV/1344129/2016**

Issue **2**

Laboratory Number: **15741576**

Sample **5** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW18**

Sample Matrix: **Ground Water**

Sample Date/Time: **09 December 2016**

Sample Received: **09 December 2016**

Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	17.4	mg/l	12/12/2016	N Cov	WAS036
Nitrite as N	<0.08	mg/l	12/12/2016	N Cov	WAS036
Phosphates , Total as P	0.28	mg/l	21/12/2016	Y Cov	WAS049
Sulphate as SO4	10.5	mg/l	12/12/2016	N Cov	WAS036
BOD + ATU (5 day)	<1	mg/l	16/12/2016	Y Cov	WAS001
COD (Total)	12.0	mg/l	16/12/2016	Y Cov	WAS040
TOC (Filtered)	2.3	mg/l	15/12/2016	Y Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	19/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	19/12/2016	N Cov	WAS018
Sulphide as S	<0.020	mg/l	23/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	14/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	06/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	06/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	06/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	19/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	06/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	06/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	06/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	06/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	06/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	06/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	06/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	06/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	06/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	06/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	06/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	06/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	06/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	06/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	06/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	06/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	06/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	06/01/2017	Y Cov	GEO47

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Issue **2**

Laboratory Number: **15741576**

Sample **5** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW18**

Sample Matrix: **Ground Water**

Sample Date/Time: **09 December 2016**

Sample Received: **09 December 2016**

Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	06/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	06/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	06/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	06/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	06/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	06/01/2017	Y Cov	GEO47
Azinphos-ethyl	<0.004	ug/l	06/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	06/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	06/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	06/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	06/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	06/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	06/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	06/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	06/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	06/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	06/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	06/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	06/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	06/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	06/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	06/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	06/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	06/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	06/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	23/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	23/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	23/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	23/12/2016	Y Cov	GEO20

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Issue **2**

Laboratory Number: **15741576**

Sample **5** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW18**

Sample Matrix: **Ground Water**

Sample Date/Time: **09 December 2016**

Sample Received: **09 December 2016**

Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	23/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	23/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Mecoprop	<0.04	ug/l	23/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	14/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Naphthol	<0.10	ug/l	14/12/2016	N Cov	338
Phenol	<0.10	ug/l	14/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	14/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	16/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	16/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	16/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	16/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	16/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	16/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	16/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	16/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	16/12/2016	N Cov	GEO46

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Report Number: **COV/1344129/2016**

Issue **2**

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Sample **5** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW18**

Sample Matrix: **Ground Water**

Sample Date/Time: **09 December 2016**

Sample Received: **09 December 2016**

Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	16/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	16/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	16/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	<10	ug/l	21/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	<10	ug/l	21/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	<10	ug/l	21/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.04	ug/l	16/12/2016	Y Cov	GEO19
Acenaphthylene	<0.04	ug/l	16/12/2016	Y Cov	GEO19
Anthracene	<0.04	ug/l	16/12/2016	Y Cov	GEO19
Benzo (a) anthracene	<0.04	ug/l	16/12/2016	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.04	ug/l	16/12/2016	Y Cov	GEO19
Benzo (a) pyrene	<0.04	ug/l	16/12/2016	Y Cov	GEO19
Benzo (b) fluoranthene	<0.04	ug/l	16/12/2016	Y Cov	GEO19
Benzo (k) fluoranthene	<0.04	ug/l	16/12/2016	Y Cov	GEO19
Chrysene	<0.04	ug/l	16/12/2016	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.04	ug/l	16/12/2016	Y Cov	GEO19
Fluoranthene	<0.04	ug/l	16/12/2016	Y Cov	GEO19
Fluorene	<0.04	ug/l	16/12/2016	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.04	ug/l	16/12/2016	Y Cov	GEO19
Naphthalene	<0.04	ug/l	16/12/2016	Y Cov	GEO19
Phenanthrene	<0.04	ug/l	16/12/2016	Y Cov	GEO19
Pyrene	<0.04	ug/l	16/12/2016	Y Cov	GEO19
PAH, Total	<0.04	ug/l	16/12/2016	N Cov	GEO19
SVOC	Y	ug/l	18/12/2016	N Cov	GEO40
Phenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
3&4-Methylphenol	<1.0	ug/l	18/12/2016	N Cov	GEO40
Dibenzofuran	<1.0	ug/l	18/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40

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Certificate of Analysis



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Issue **2**

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Sample **5** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW18**

Sample Matrix: **Ground Water**

Sample Date/Time: **09 December 2016**

Sample Received: **09 December 2016**

Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachloroethane	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Nitrobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Isophorone	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Nitrophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Naphthalene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Dimethylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthylene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Diethylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
4-Nitrophenol	<5.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Fluorene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Diphenylamine	<1.0	ug/l	18/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Pentachlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Phenanthrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40

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Issue **2**
 Sample **5** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW18**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **09 December 2016**
 Sample Received: **09 December 2016**
 Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Chrysene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<5.0	ug/l	18/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Fluorophenol	88.1	%Recovery	18/12/2016	N Cov	GEO40
Phenol-d6	84.7	%Recovery	18/12/2016	N Cov	GEO40
Nitrobenzene-d5	82.9	%Recovery	18/12/2016	N Cov	GEO40
2-Fluorobiphenyl	83.1	%Recovery	18/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	74.9	%Recovery	18/12/2016	N Cov	GEO40
Terphenyl-d14	88.4	%Recovery	18/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	15/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	23/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Certificate of Analysis



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Issue **2**

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Sample **5** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW18**

Sample Matrix: **Ground Water**

Sample Date/Time: **09 December 2016**

Sample Received: **09 December 2016**

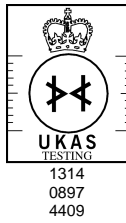
Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Benzene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	29/12/2016	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Bromoform	<0.20	ug/l	29/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloroform	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	29/12/2016	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Naphthalene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Report Number: **COV/1344129/2016**
 Laboratory Number: **15741576**

Issue **2**
 Sample **5** of **7**


Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW18**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **09 December 2016**
 Sample Received: **09 December 2016**
 Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	29/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	29/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Toluene	<0.50	ug/l	29/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	29/12/2016	Y S	SUBCON

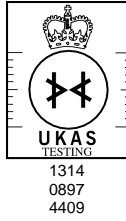
Analyst Comments for 15741576:

This sample has been analysed for Pesticides method GEO47, Magnesium, Total as Mg, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba outside recommended stability times. It is therefore possible that the results provided may be compromised. Reporting limits raised for PAH due to nature of sample matrix.
 GEO40 SVOC Waters: See attached SVOC-TIC Report. {*/}The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis.{*/}

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.
 Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).
 For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).
 I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: 	Name: C. Law	Date: 10 January 2017
	Title: Inorganics Operations Manager	

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Report Number: **COV/1344129/2016**

Issue **2**

Laboratory Number: **15741577**

Sample **6** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW19**

Sample Matrix: **Ground Water**

Sample Date/Time: **09 December 2016**

Sample Received: **09 December 2016**

Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	10.6	mg/l	22/12/2016	N Cov	WAS043
Nitrate as NO3	21.4	mg/l	12/12/2016	N Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	21/12/2016	Y Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	21/12/2016	Y Cov	WAS060
Arsenic, Ultra Low Total as As	0.014	mg/l	21/12/2016	Y Cov	WAS060
Fluoride	0.139	mg/l	16/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Aluminium, Total as Al	0.1	mg/l	21/12/2016	Y Cov	WAS049
Barium, Total as Ba	0.264	mg/l	21/12/2016	Y Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	21/12/2016	Y Cov	WAS049
Boron, Total as B	<0.23	mg/l	21/12/2016	Y Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	21/12/2016	Y Cov	WAS049
Calcium , Total as Ca	169	mg/l	21/12/2016	Y Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	21/12/2016	Y Cov	WAS049
Copper, Ultra-low Total as Cu	<1.9	ug/l	21/12/2016	Y Cov	WAS060
Iron , Total as Fe	14.4	mg/l	21/12/2016	Y Cov	WAS049
Ferrous Iron	10.5	mg/l	22/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	22/12/2016	N Cov	WAS043
Lead , Total as Pb	<0.006	mg/l	21/12/2016	Y Cov	WAS049
Magnesium, Total as Mg	18.0	mg/l	21/12/2016	Y Cov	WAS049
Manganese , Total as Mn	1.53	mg/l	21/12/2016	Y Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	19/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.004	mg/l	21/12/2016	Y Cov	WAS049
Potassium , Total as K	6.74	mg/l	21/12/2016	Y Cov	WAS049
Sodium , Total as Na	25.2	mg/l	21/12/2016	Y Cov	WAS049
Vanadium , Total as V	<0.004	mg/l	21/12/2016	Y Cov	WAS049
Zinc, Total as Zn	<0.018	mg/l	21/12/2016	Y Cov	WAS049
pH	7.2	pH units	12/12/2016	Y Cov	WAS039
Conductivity- Electrical 20C	819	uS/cm	12/12/2016	Y Cov	WAS039
Alkalinity as CaCO3	438	mg/l	20/12/2016	Y Cov	WAS025
Ammoniacal Nitrogen as N (LL)	3.83	mg/l	14/12/2016	Y Cov	WAS067

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Report Number: **COV/1344129/2016**
 Laboratory Number: **15741577**

Issue **2**
 Sample **6** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW19**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **09 December 2016**
 Sample Received: **09 December 2016**
 Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	27.5	mg/l	12/12/2016	N Cov	WAS036
Nitrite as N	<0.08	mg/l	12/12/2016	N Cov	WAS036
Phosphates , Total as P	0.72	mg/l	21/12/2016	Y Cov	WAS049
Sulphate as SO4	142	mg/l	12/12/2016	N Cov	WAS036
BOD + ATU (5 day)	<1	mg/l	16/12/2016	Y Cov	WAS001
COD (Total)	20.0	mg/l	16/12/2016	Y Cov	WAS040
TOC (Filtered)	5.1	mg/l	15/12/2016	Y Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	21/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	21/12/2016	N Cov	WAS018
Sulphide as S	<0.020	mg/l	23/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	14/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	06/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	06/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	06/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	19/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	06/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	06/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	06/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	06/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	06/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	06/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	06/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	06/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	06/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	06/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	06/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	06/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	06/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	06/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	06/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	06/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	06/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	06/01/2017	Y Cov	GEO47

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Report Number: **COV/1344129/2016**
 Laboratory Number: **15741577**

Issue **2**
 Sample **6** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW19**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **09 December 2016**
 Sample Received: **09 December 2016**
 Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	06/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	06/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	06/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	06/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	06/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	06/01/2017	Y Cov	GEO47
Azinphos-ethyl	<0.004	ug/l	06/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	06/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	06/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	06/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	06/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	06/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	06/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	06/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	06/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	06/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	06/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	06/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	06/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	06/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	06/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	06/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	06/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	06/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	06/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	23/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	23/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	23/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	23/12/2016	Y Cov	GEO20

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Report Number: **COV/1344129/2016**

Issue **2**

Laboratory Number: **15741577**

Sample **6** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW19**

Sample Matrix: **Ground Water**

Sample Date/Time: **09 December 2016**

Sample Received: **09 December 2016**

Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	23/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	23/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Mecoprop	0.27	ug/l	23/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	14/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Naphthol	<0.10	ug/l	14/12/2016	N Cov	338
Phenol	<0.10	ug/l	14/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	14/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	16/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	16/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	16/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	16/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	16/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	16/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	16/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	16/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	16/12/2016	N Cov	GEO46

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Report Number: **COV/1344129/2016**
 Laboratory Number: **15741577**

Issue **2**
 Sample **6** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW19**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **09 December 2016**
 Sample Received: **09 December 2016**
 Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	16/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	16/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	16/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	<10	ug/l	21/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	<10	ug/l	21/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	<10	ug/l	21/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Anthracene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Chrysene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Fluoranthene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Fluorene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Naphthalene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Phenanthrene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
Pyrene	<0.01	ug/l	16/12/2016	Y Cov	GEO19
PAH, Total	<0.01	ug/l	16/12/2016	N Cov	GEO19
SVOC	Y	ug/l	18/12/2016	N Cov	GEO40
Phenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
3&4-Methylphenol	<1.0	ug/l	18/12/2016	N Cov	GEO40
Dibenzofuran	<1.0	ug/l	18/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40

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Report Number: **COV/1344129/2016**

Issue **2**

Laboratory Number: **15741577**

Sample **6** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW19**

Sample Matrix: **Ground Water**

Sample Date/Time: **09 December 2016**

Sample Received: **09 December 2016**

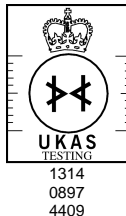
Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachloroethane	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Nitrobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Isophorone	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Nitrophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Naphthalene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Dimethylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthylene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Diethylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
4-Nitrophenol	<5.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Fluorene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Diphenylamine	<1.0	ug/l	18/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Pentachlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Phenanthrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40

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Report Number: **COV/1344129/2016**

Issue **2**

Laboratory Number: **15741577**

Sample **6** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW19**

Sample Matrix: **Ground Water**

Sample Date/Time: **09 December 2016**

Sample Received: **09 December 2016**

Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Chrysene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<5.0	ug/l	18/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Fluorophenol	97.1	%Recovery	18/12/2016	N Cov	GEO40
Phenol-d6	90.1	%Recovery	18/12/2016	N Cov	GEO40
Nitrobenzene-d5	81.7	%Recovery	18/12/2016	N Cov	GEO40
2-Fluorobiphenyl	81.2	%Recovery	18/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	80.4	%Recovery	18/12/2016	N Cov	GEO40
Terphenyl-d14	95.0	%Recovery	18/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	15/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	23/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Report Number: **COV/1344129/2016**
 Laboratory Number: **15741577**

Issue **2**
 Sample **6** of **7**

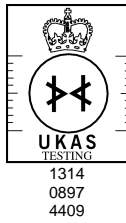
Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW19**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **09 December 2016**
 Sample Received: **09 December 2016**
 Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Benzene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	29/12/2016	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Bromoform	<0.20	ug/l	29/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloroform	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	29/12/2016	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Naphthalene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Report Number: **COV/1344129/2016**
Laboratory Number: **15741577**

Issue **2**
Sample **6** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
Sample Point Description:
Sample Description: **EMW19**
Sample Matrix: **Ground Water**
Sample Date/Time: **09 December 2016**
Sample Received: **09 December 2016**
Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	29/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	29/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Toluene	<0.50	ug/l	29/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	29/12/2016	Y S	SUBCON

Analyst Comments for 15741577:

This sample has been analysed for Pesticides method GEO47, Magnesium, Total as Mg, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba outside recommended stability times. It is therefore possible that the results provided may be compromised. GEO40 SVOC Waters: See attached SVOC-TIC Report. {/*}The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis.{/*}

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG). For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **C. Law**

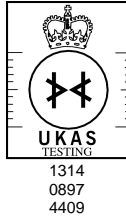
Date: **10 January 2017**

Title: **Inorganics Operations Manager**

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Report Number: **COV/1344129/2016**

Issue **2**

Laboratory Number: **15741578**

Sample **7** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW20**

Sample Matrix: **Ground Water**

Sample Date/Time: **09 December 2016**

Sample Received: **09 December 2016**

Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	7.4	mg/l	22/12/2016	N Cov	WAS043
Nitrate as NO3	5.7	mg/l	12/12/2016	N Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	22/12/2016	Y Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	22/12/2016	Y Cov	WAS060
Arsenic, Ultra Low Total as As	0.0034	mg/l	22/12/2016	Y Cov	WAS060
Fluoride	0.138	mg/l	16/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Aluminium, Total as Al	<0.1	mg/l	23/12/2016	Y Cov	WAS049
Barium, Total as Ba	0.120	mg/l	23/12/2016	Y Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	23/12/2016	Y Cov	WAS049
Boron, Total as B	<0.23	mg/l	23/12/2016	Y Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	23/12/2016	Y Cov	WAS049
Calcium , Total as Ca	119	mg/l	28/12/2016	Y Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	23/12/2016	Y Cov	WAS049
Copper, Ultra-low Total as Cu	<1.9	ug/l	22/12/2016	Y Cov	WAS060
Iron , Total as Fe	7.39	mg/l	23/12/2016	Y Cov	WAS049
Ferrous Iron	7.1	mg/l	22/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	22/12/2016	N Cov	WAS043
Lead , Total as Pb	<0.006	mg/l	23/12/2016	Y Cov	WAS049
Magnesium, Total as Mg	8.3	mg/l	23/12/2016	Y Cov	WAS049
Manganese , Total as Mn	1.06	mg/l	23/12/2016	Y Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	19/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.004	mg/l	23/12/2016	Y Cov	WAS049
Potassium , Total as K	1.09	mg/l	23/12/2016	Y Cov	WAS049
Sodium , Total as Na	10.1	mg/l	23/12/2016	Y Cov	WAS049
Vanadium , Total as V	<0.004	mg/l	23/12/2016	Y Cov	WAS049
Zinc, Total as Zn	<0.018	mg/l	23/12/2016	Y Cov	WAS049
pH	7.3	pH units	12/12/2016	Y Cov	WAS039
Conductivity- Electrical 20C	527	uS/cm	12/12/2016	Y Cov	WAS039
Alkalinity as CaCO3	332	mg/l	20/12/2016	Y Cov	WAS025
Ammoniacal Nitrogen as N (LL)	1.06	mg/l	14/12/2016	Y Cov	WAS067

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Issue **2**

Laboratory Number: **15741578**

Sample **7** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW20**

Sample Matrix: **Ground Water**

Sample Date/Time: **09 December 2016**

Sample Received: **09 December 2016**

Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	19.5	mg/l	12/12/2016	N Cov	WAS036
Nitrite as N	<0.08	mg/l	12/12/2016	N Cov	WAS036
Phosphates , Total as P	0.40	mg/l	23/12/2016	Y Cov	WAS049
Sulphate as SO4	17.5	mg/l	12/12/2016	N Cov	WAS036
BOD + ATU (5 day)	<1	mg/l	16/12/2016	Y Cov	WAS001
COD (Total)	14.0	mg/l	16/12/2016	Y Cov	WAS040
TOC (Filtered)	2.5	mg/l	15/12/2016	Y Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	19/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	19/12/2016	N Cov	WAS018
Sulphide as S	<0.020	mg/l	23/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	14/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	06/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	06/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	06/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	19/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	06/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	06/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	06/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	06/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	06/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	06/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	06/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	06/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	06/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	06/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	06/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	06/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	06/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	06/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	06/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	06/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	06/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	06/01/2017	Y Cov	GEO47

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Report Number: **COV/1344129/2016**

Issue **2**

Laboratory Number: **15741578**

Sample **7** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW20**

Sample Matrix: **Ground Water**

Sample Date/Time: **09 December 2016**

Sample Received: **09 December 2016**

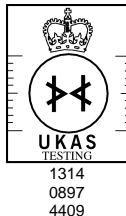
Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	06/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	06/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	06/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	06/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	06/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	06/01/2017	Y Cov	GEO47
Azinphos-ethyl	<0.004	ug/l	06/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	06/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	06/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	06/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	06/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	06/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	06/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	06/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	06/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	06/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	06/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	06/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	06/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	06/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	06/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	06/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	06/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	06/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	06/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	23/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	23/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	23/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	23/12/2016	Y Cov	GEO20

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Issue **2**

Laboratory Number: **15741578**

Sample **7** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW20**

Sample Matrix: **Ground Water**

Sample Date/Time: **09 December 2016**

Sample Received: **09 December 2016**

Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	23/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	23/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	23/12/2016	Y Cov	GEO20
Mecoprop	0.04	ug/l	23/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	14/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Naphthol	<0.10	ug/l	14/12/2016	N Cov	338
Phenol	<0.10	ug/l	14/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	14/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	14/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	16/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	16/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	16/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	16/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	16/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	16/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	16/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	16/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	16/12/2016	N Cov	GEO46

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Report Number: **COV/1344129/2016**
 Laboratory Number: **15741578**

Issue **2**
 Sample **7** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW20**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **09 December 2016**
 Sample Received: **09 December 2016**
 Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	16/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	16/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	16/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	<10	ug/l	21/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	<10	ug/l	21/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	<10	ug/l	21/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.02	ug/l	16/12/2016	Y Cov	GEO19
Acenaphthylene	<0.02	ug/l	16/12/2016	Y Cov	GEO19
Anthracene	<0.02	ug/l	16/12/2016	Y Cov	GEO19
Benzo (a) anthracene	<0.02	ug/l	16/12/2016	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.02	ug/l	16/12/2016	Y Cov	GEO19
Benzo (a) pyrene	<0.02	ug/l	16/12/2016	Y Cov	GEO19
Benzo (b) fluoranthene	<0.02	ug/l	16/12/2016	Y Cov	GEO19
Benzo (k) fluoranthene	<0.02	ug/l	16/12/2016	Y Cov	GEO19
Chrysene	<0.02	ug/l	16/12/2016	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.02	ug/l	16/12/2016	Y Cov	GEO19
Fluoranthene	<0.02	ug/l	16/12/2016	Y Cov	GEO19
Fluorene	<0.02	ug/l	16/12/2016	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.02	ug/l	16/12/2016	Y Cov	GEO19
Naphthalene	<0.02	ug/l	16/12/2016	Y Cov	GEO19
Phenanthrene	<0.02	ug/l	16/12/2016	Y Cov	GEO19
Pyrene	<0.02	ug/l	16/12/2016	Y Cov	GEO19
PAH, Total	<0.02	ug/l	16/12/2016	N Cov	GEO19
SVOC	Y	ug/l	18/12/2016	N Cov	GEO40
Phenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
3&4-Methylphenol	<1.0	ug/l	18/12/2016	N Cov	GEO40
Dibenzofuran	<1.0	ug/l	18/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40

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Report Number: **COV/1344129/2016**

Issue **2**

Laboratory Number: **15741578**

Sample **7** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW20**

Sample Matrix: **Ground Water**

Sample Date/Time: **09 December 2016**

Sample Received: **09 December 2016**

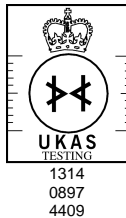
Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachloroethane	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Nitrobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Isophorone	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Nitrophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Naphthalene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Dimethylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthylene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Diethylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
4-Nitrophenol	<5.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Fluorene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Diphenylamine	<1.0	ug/l	18/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Pentachlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Phenanthrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40

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Report Number: **COV/1344129/2016**
 Laboratory Number: **15741578**

Issue **2**
 Sample **7** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW20**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **09 December 2016**
 Sample Received: **09 December 2016**
 Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Chrysene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<5.0	ug/l	18/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Fluorophenol	99.4	%Recovery	18/12/2016	N Cov	GEO40
Phenol-d6	90.0	%Recovery	18/12/2016	N Cov	GEO40
Nitrobenzene-d5	89.6	%Recovery	18/12/2016	N Cov	GEO40
2-Fluorobiphenyl	91.5	%Recovery	18/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	86.2	%Recovery	18/12/2016	N Cov	GEO40
Terphenyl-d14	97.9	%Recovery	18/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	15/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	23/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Report Number: **COV/1344129/2016**

Issue **2**

Laboratory Number: **15741578**

Sample **7** of **7**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW20**

Sample Matrix: **Ground Water**

Sample Date/Time: **09 December 2016**

Sample Received: **09 December 2016**

Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Benzene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	29/12/2016	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Bromoform	<0.20	ug/l	29/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloroform	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	29/12/2016	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Naphthalene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Report Number: **COV/1344129/2016**
Laboratory Number: **15741578**

Issue **2**
Sample **7** of **7**


Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
Sample Point Description:
Sample Description: **EMW20**
Sample Matrix: **Ground Water**
Sample Date/Time: **09 December 2016**
Sample Received: **09 December 2016**
Analysis Complete: **10 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	29/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	29/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Toluene	<0.50	ug/l	29/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	29/12/2016	Y S	SUBCON

Analyst Comments for 15741578:

This sample has been analysed for Pesticides method GEO47, Magnesium, Total as Mg, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba outside recommended stability times. It is therefore possible that the results provided may be compromised. Reporting limits raised for PAH due to nature of sample matrix.
GEO40 SVOC Waters: See attached SVOC-TIC Report. {*/}The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis.{*/}

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.
Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).
For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).
I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:  Name: **C. Law** Date: **10 January 2017**
Title: **Inorganics Operations Manager**

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Mr Downes
SKM Ireland c/o Jacobs
Engineering Ireland
Jacobs
Merrion House
Merrion Road
Dublin 4 South Dublin

09 January 2017

Test Report: COV/1344748/2016

Dear Mr Downes

Analysis of your sample(s) submitted on 12 December 2016 is now complete and we have pleasure in enclosing the appropriate test report(s).


An invoice for the analysis carried out will be sent under separate cover.

Should you have any queries regarding this report(s) or any part of our service, please contact Customer Services on +44 (0)24 7642 1213 who will be happy to discuss your requirements.

If you would like to arrange any further analysis, please contact Customer Services. To arrange container delivery or sample collection, please call the Couriers Department directly on 024 7685 6562.

Thank you for using ALS Environmental Ltd and we look forward to receiving your next samples.

Yours Sincerely,

Signed: 

Name: P. Johal

Title: Microbiology Manager



Report Summary



1314
0897
4409



**Mr Ultan Downes
SKM Ireland c/o Jacobs
Engineering Ireland
Jacobs
Merrion House
Merrion Road
Dublin 4
South Dublin**

Date of Issue: **09 January 2017**

Report Number: **COV/1344748/2016**

Issue **2**

Job Description: Kerdiffstown Landfill

Number of Samples
included in this report **3**

Job Received: **12 December 2016**

Number of Test Results
included in this report **825**

Analysis Commenced: **13 December 2016**

Signed:

Name: **P. Johal**

Date: **09 January 2017**

Title: **Microbiology Manager**

ALS Environmental Ltd was not responsible for sampling unless otherwise stated. Sampling is not covered by our UKAS accreditation.

Information on the methods of analysis and performance characteristics are available on request.

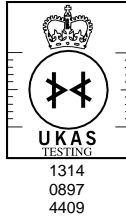
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. The results relate only to the items tested.

Tests marked 'Not UKAS Accredited' in this Report/Certificate are not included in the UKAS Accreditation Schedule for our laboratory.

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Certificate of Analysis



Report Number: **COV/1344748/2016**

Issue **2**

Laboratory Number: **15745886**

Sample **1** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW05**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **12 December 2016**

Analysis Complete: **09 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	<0.5	mg/l	28/12/2016	N Cov	WAS043
Nitrate as NO3	9.7	mg/l	15/12/2016	N Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	29/12/2016	Y Cov	WAS060
Selenium Ultra Low Total as Se	0.0012	mg/l	28/12/2016	Y Cov	WAS060
Arsenic, Ultra Low Total as As	0.0044	mg/l	29/12/2016	Y Cov	WAS060
Fluoride	0.095	mg/l	20/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Aluminium, Total as Al	1.1	mg/l	28/12/2016	Y Cov	WAS049
Barium, Total as Ba	0.074	mg/l	28/12/2016	Y Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	28/12/2016	Y Cov	WAS049
Boron, Total as B	0.29	mg/l	28/12/2016	Y Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	28/12/2016	Y Cov	WAS049
Calcium , Total as Ca	185	mg/l	28/12/2016	Y Cov	WAS049
Chromium , Total as Cr	0.003	mg/l	28/12/2016	Y Cov	WAS049
Copper, Ultra-low Total as Cu	5.9	ug/l	28/12/2016	Y Cov	WAS060
Iron , Total as Fe	4.53	mg/l	28/12/2016	Y Cov	WAS049
Ferrous Iron	<0.5	mg/l	28/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	28/12/2016	N Cov	WAS043
Lead , Total as Pb	0.010	mg/l	28/12/2016	Y Cov	WAS049
Magnesium, Total as Mg	12.5	mg/l	28/12/2016	Y Cov	WAS049
Manganese , Total as Mn	0.933	mg/l	28/12/2016	Y Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	21/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.011	mg/l	28/12/2016	Y Cov	WAS049
Potassium , Total as K	3.68	mg/l	28/12/2016	Y Cov	WAS049
Sodium , Total as Na	21.4	mg/l	28/12/2016	Y Cov	WAS049
Vanadium , Total as V	0.005	mg/l	28/12/2016	Y Cov	WAS049
Zinc, Total as Zn	0.02	mg/l	28/12/2016	Y Cov	WAS049
pH	7.1	pH units	14/12/2016	Y Cov	WAS039
Conductivity- Electrical 20C	849	uS/cm	14/12/2016	Y Cov	WAS039
Alkalinity as CaCO3	470	mg/l	14/12/2016	Y Cov	WAS025
Ammoniacal Nitrogen as N (LL)	1.45	mg/l	14/12/2016	Y Cov	WAS067

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Report Number: **COV/1344748/2016**

Issue **2**

Laboratory Number: **15745886**

Sample **1** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW05**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **12 December 2016**

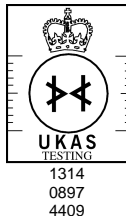
Analysis Complete: **09 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	24.8	mg/l	15/12/2016	N Cov	WAS036
Nitrite as N	<0.08	mg/l	15/12/2016	N Cov	WAS036
Phosphates , Total as P	0.26	mg/l	28/12/2016	Y Cov	WAS049
Sulphate as SO4	23.5	mg/l	15/12/2016	N Cov	WAS036
BOD + ATU (5 day)	3	mg/l	19/12/2016	Y Cov	WAS001
COD (Total)	44.0	mg/l	16/12/2016	Y Cov	WAS040
TOC (Filtered)	4.0	mg/l	15/12/2016	Y Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	19/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	19/12/2016	N Cov	WAS018
Sulphide as S	0.040	mg/l	28/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	14/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	09/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	09/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	09/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	19/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	09/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	09/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	09/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	09/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	09/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	09/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	09/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	09/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	09/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	09/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	09/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	09/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	09/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	09/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	09/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	09/01/2017	Y Cov	GEO47

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Issue **2**

Laboratory Number: **15745886**

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Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW05**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **12 December 2016**

Analysis Complete: **09 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	09/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	09/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	09/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	09/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	09/01/2017	Y Cov	GEO47
Azinphos-ethyl	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	09/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	09/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	09/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	24/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	24/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	24/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	24/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	24/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	24/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	24/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	24/12/2016	Y Cov	GEO20

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Issue **2**

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Sample **1** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW05**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **12 December 2016**

Analysis Complete: **09 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	24/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	24/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	24/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	24/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	24/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	24/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	24/12/2016	Y Cov	GEO20
Mecoprop	0.50	ug/l	24/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	16/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Naphthol	<0.10	ug/l	16/12/2016	N Cov	338
Phenol	<0.10	ug/l	16/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	16/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	20/12/2016	N Cov	GEO46

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Issue **2**

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Sample **1** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW05**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **12 December 2016**

Analysis Complete: **09 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	<10	ug/l	21/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	<10	ug/l	21/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	<10	ug/l	21/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Anthracene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Chrysene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Fluoranthene	0.043	ug/l	06/01/2017	Y Cov	GEO19
Fluorene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Naphthalene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Phenanthrene	0.015	ug/l	06/01/2017	Y Cov	GEO19
Pyrene	0.014	ug/l	06/01/2017	Y Cov	GEO19
PAH, Total	0.072	ug/l	06/01/2017	N Cov	GEO19
SVOC	Y	ug/l	18/12/2016	N Cov	GEO40
Phenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
3&4-Methylphenol	<1.0	ug/l	18/12/2016	N Cov	GEO40
Dibenzofuran	<1.0	ug/l	18/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40

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Issue **2**

Laboratory Number: **15745886**

Sample **1** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW05**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **12 December 2016**

Analysis Complete: **09 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachloroethane	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Nitrobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Isophorone	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Nitrophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Naphthalene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Dimethylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthylene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Diethylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
4-Nitrophenol	<5.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Fluorene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Diphenylamine	<1.0	ug/l	18/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Pentachlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Phenanthrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40

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Issue **2**
 Sample **1** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW05**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **12 December 2016**
 Sample Received: **12 December 2016**
 Analysis Complete: **09 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Chrysene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<5.0	ug/l	18/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Fluorophenol	96.2	%Recovery	18/12/2016	N Cov	GEO40
Phenol-d6	85.5	%Recovery	18/12/2016	N Cov	GEO40
Nitrobenzene-d5	88.1	%Recovery	18/12/2016	N Cov	GEO40
2-Fluorobiphenyl	89.4	%Recovery	18/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	87.5	%Recovery	18/12/2016	N Cov	GEO40
Terphenyl-d14	99.9	%Recovery	18/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	15/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	24/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Sample **1** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW05**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **12 December 2016**

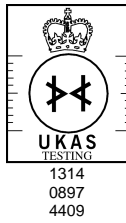
Analysis Complete: **09 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Benzene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	29/12/2016	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Bromoform	<0.20	ug/l	29/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloroform	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	29/12/2016	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Naphthalene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Report Number: **COV/1344748/2016**

Issue **2**

Laboratory Number: **15745886**

Sample **1** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW05**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **12 December 2016**

Analysis Complete: **09 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	29/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	29/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Toluene	<0.50	ug/l	29/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	29/12/2016	Y S	SUBCON

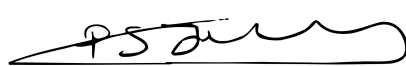
Analyst Comments for 15745886:

This sample has been analysed for Pesticides method GEO47, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba outside recommended stability times. It is therefore possible that the results provided may be compromised. GEO40 SVOC Waters: See attached SVOC-TIC Report.

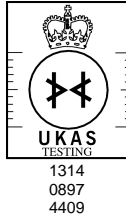
Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG). For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:  Name: **P. Johal** Date: **09 January 2017**
Title: **Microbiology Manager**

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Report Number: **COV/1344748/2016**

Issue **2**

Laboratory Number: **15745887**

Sample **2** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW21**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **12 December 2016**

Analysis Complete: **09 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	<0.5	mg/l	28/12/2016	N Cov	WAS043
Nitrate as NO3	<3.1	mg/l	15/12/2016	N Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	29/12/2016	Y Cov	WAS060
Selenium Ultra Low Total as Se	0.0020	mg/l	28/12/2016	Y Cov	WAS060
Arsenic, Ultra Low Total as As	<0.0010	mg/l	29/12/2016	Y Cov	WAS060
Fluoride	0.058	mg/l	20/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Aluminium, Total as Al	0.2	mg/l	28/12/2016	Y Cov	WAS049
Barium, Total as Ba	0.023	mg/l	28/12/2016	Y Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	28/12/2016	Y Cov	WAS049
Boron, Total as B	<0.23	mg/l	28/12/2016	Y Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	28/12/2016	Y Cov	WAS049
Calcium , Total as Ca	122	mg/l	28/12/2016	Y Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	28/12/2016	Y Cov	WAS049
Copper, Ultra-low Total as Cu	<1.9	ug/l	28/12/2016	Y Cov	WAS060
Iron , Total as Fe	0.28	mg/l	28/12/2016	Y Cov	WAS049
Ferrous Iron	<0.5	mg/l	28/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	28/12/2016	N Cov	WAS043
Lead , Total as Pb	<0.006	mg/l	28/12/2016	Y Cov	WAS049
Magnesium, Total as Mg	4.3	mg/l	28/12/2016	Y Cov	WAS049
Manganese , Total as Mn	0.075	mg/l	28/12/2016	Y Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	21/12/2016	N Cov	WAS013
Nickel, Total as Ni	<0.003	mg/l	28/12/2016	Y Cov	WAS049
Potassium , Total as K	0.61	mg/l	28/12/2016	Y Cov	WAS049
Sodium , Total as Na	3.08	mg/l	28/12/2016	Y Cov	WAS049
Vanadium , Total as V	<0.004	mg/l	28/12/2016	Y Cov	WAS049
Zinc, Total as Zn	<0.018	mg/l	28/12/2016	Y Cov	WAS049
pH	7.3	pH units	14/12/2016	Y Cov	WAS039
Conductivity- Electrical 20C	551	uS/cm	14/12/2016	Y Cov	WAS039
Alkalinity as CaCO3	322	mg/l	14/12/2016	Y Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	14/12/2016	Y Cov	WAS067

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Report Number: **COV/1344748/2016**
 Laboratory Number: **15745887**

Issue **2**
 Sample **2** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW21**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **12 December 2016**
 Sample Received: **12 December 2016**
 Analysis Complete: **09 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	4.1	mg/l	15/12/2016	N Cov	WAS036
Nitrite as N	<0.08	mg/l	15/12/2016	N Cov	WAS036
Phosphates , Total as P	<0.120	mg/l	28/12/2016	Y Cov	WAS049
Sulphate as SO4	6.1	mg/l	15/12/2016	N Cov	WAS036
BOD + ATU (5 day)	1	mg/l	19/12/2016	Y Cov	WAS001
COD (Total)	18.0	mg/l	16/12/2016	Y Cov	WAS040
TOC (Filtered)	0.9	mg/l	15/12/2016	Y Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	19/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	19/12/2016	N Cov	WAS018
Sulphide as S	<0.020	mg/l	28/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	14/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	09/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	09/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	09/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	19/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	09/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	09/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	09/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	09/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	09/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	09/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	09/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	09/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	09/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	09/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	09/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	09/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	09/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	09/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	09/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	09/01/2017	Y Cov	GEO47

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Report Number: **COV/1344748/2016**

Issue **2**

Laboratory Number: **15745887**

Sample **2** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW21**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **12 December 2016**

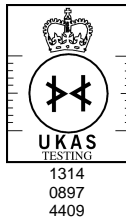
Analysis Complete: **09 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	09/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	09/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	09/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	09/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	09/01/2017	Y Cov	GEO47
Azinphos-ethyl	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	09/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	09/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	09/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	24/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	24/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	24/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	24/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	24/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	24/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	24/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	24/12/2016	Y Cov	GEO20

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Report Number: **COV/1344748/2016**
 Laboratory Number: **15745887**

Issue **2**
 Sample **2** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW21**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **12 December 2016**
 Sample Received: **12 December 2016**
 Analysis Complete: **09 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	24/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	24/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	24/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	24/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	24/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	24/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	24/12/2016	Y Cov	GEO20
Mecoprop	<0.04	ug/l	24/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	16/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Naphthol	<0.10	ug/l	16/12/2016	N Cov	338
Phenol	<0.10	ug/l	16/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	16/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	20/12/2016	N Cov	GEO46

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Report Number: **COV/1344748/2016**
 Laboratory Number: **15745887**

Issue **2**
 Sample **2** of **3**

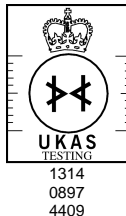
Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW21**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **12 December 2016**
 Sample Received: **12 December 2016**
 Analysis Complete: **09 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	<10	ug/l	21/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	<10	ug/l	21/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	<10	ug/l	21/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Anthracene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Chrysene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Fluoranthene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Fluorene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Naphthalene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Phenanthrene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Pyrene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
PAH, Total	<0.01	ug/l	06/01/2017	N Cov	GEO19
SVOC	Y	ug/l	18/12/2016	N Cov	GEO40
Phenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
3&4-Methylphenol	<1.0	ug/l	18/12/2016	N Cov	GEO40
Dibenzofuran	<1.0	ug/l	18/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40

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Report Number: **COV/1344748/2016**

Issue **2**

Laboratory Number: **15745887**

Sample **2** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW21**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **12 December 2016**

Analysis Complete: **09 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachloroethane	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Nitrobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Isophorone	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Nitrophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Naphthalene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Dimethylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthylene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Diethylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
4-Nitrophenol	<5.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Fluorene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Diphenylamine	<1.0	ug/l	18/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Pentachlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Phenanthrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40

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Report Number: **COV/1344748/2016**
 Laboratory Number: **15745887**

Issue **2**
 Sample **2** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW21**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **12 December 2016**
 Sample Received: **12 December 2016**
 Analysis Complete: **09 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Chrysene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<5.0	ug/l	18/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Fluorophenol	96.4	%Recovery	18/12/2016	N Cov	GEO40
Phenol-d6	84.3	%Recovery	18/12/2016	N Cov	GEO40
Nitrobenzene-d5	86.8	%Recovery	18/12/2016	N Cov	GEO40
2-Fluorobiphenyl	88.6	%Recovery	18/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	86.7	%Recovery	18/12/2016	N Cov	GEO40
Terphenyl-d14	94.9	%Recovery	18/12/2016	N Cov	GEO40
Nitrite as NO2	<0.28	mg/l	15/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	24/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Report Number: **COV/1344748/2016**
 Laboratory Number: **15745887**

Issue **2**
 Sample **2** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW21**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **12 December 2016**
 Sample Received: **12 December 2016**
 Analysis Complete: **09 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Benzene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	29/12/2016	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Bromoform	0.87	ug/l	29/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloroform	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	29/12/2016	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Naphthalene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Report Number: **COV/1344748/2016**
Laboratory Number: **15745887**

Issue **2**
Sample **2** of **3**


Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
Sample Point Description:
Sample Description: **EMW21**
Sample Matrix: **Ground Water**
Sample Date/Time: **12 December 2016**
Sample Received: **12 December 2016**
Analysis Complete: **09 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	29/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	29/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Toluene	<0.50	ug/l	29/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	29/12/2016	Y S	SUBCON

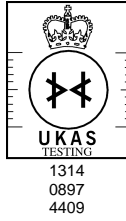
Analyst Comments for 15745887:

This sample has been analysed for Pesticides method GEO47, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba outside recommended stability times. It is therefore possible that the results provided may be compromised. GEO40 SVOC Waters: See attached SVOC-TIC Report.

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.
Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).
For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).
I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:  Name: **P. Johal** Date: **09 January 2017**
Title: **Microbiology Manager**

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Report Number: **COV/1344748/2016**

Issue **2**

Laboratory Number: **15745888**

Sample **3** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW24**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **12 December 2016**

Analysis Complete: **09 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	<0.5	mg/l	28/12/2016	N Cov	WAS043
Nitrate as NO3	9.2	mg/l	15/12/2016	N Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	29/12/2016	Y Cov	WAS060
Selenium Ultra Low Total as Se	0.0016	mg/l	28/12/2016	Y Cov	WAS060
Arsenic, Ultra Low Total as As	0.0022	mg/l	29/12/2016	Y Cov	WAS060
Fluoride	0.218	mg/l	20/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Aluminium, Total as Al	2.6	mg/l	29/12/2016	Y Cov	WAS049
Barium, Total as Ba	0.102	mg/l	29/12/2016	Y Cov	WAS049
Beryllium, Total as Be	<0.0210	mg/l	29/12/2016	Y Cov	WAS049
Boron, Total as B	<2.30	mg/l	29/12/2016	Y Cov	WAS049
Cadmium , Total as Cd	<0.0060	mg/l	29/12/2016	Y Cov	WAS049
Calcium , Total as Ca	153	mg/l	29/12/2016	Y Cov	WAS049
Chromium , Total as Cr	<0.020	mg/l	29/12/2016	Y Cov	WAS049
Copper, Ultra-low Total as Cu	16	ug/l	28/12/2016	Y Cov	WAS060
Iron , Total as Fe	3.43	mg/l	29/12/2016	Y Cov	WAS049
Ferrous Iron	<0.5	mg/l	28/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	28/12/2016	N Cov	WAS043
Lead , Total as Pb	<0.060	mg/l	29/12/2016	Y Cov	WAS049
Magnesium, Total as Mg	17.4	mg/l	29/12/2016	Y Cov	WAS049
Manganese , Total as Mn	0.763	mg/l	29/12/2016	Y Cov	WAS049
Mercury, Total as Hg	0.00020	mg/l	21/12/2016	N Cov	WAS013
Nickel, Total as Ni	<0.030	mg/l	29/12/2016	Y Cov	WAS049
Potassium , Total as K	<1.80	mg/l	29/12/2016	Y Cov	WAS049
Sodium , Total as Na	7.39	mg/l	29/12/2016	Y Cov	WAS049
Vanadium , Total as V	<0.040	mg/l	29/12/2016	Y Cov	WAS049
Zinc, Total as Zn	<0.180	mg/l	29/12/2016	Y Cov	WAS049
pH	7.4	pH units	14/12/2016	Y Cov	WAS039
Conductivity- Electrical 20C	586	uS/cm	14/12/2016	Y Cov	WAS039
Alkalinity as CaCO3	323	mg/l	14/12/2016	Y Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	14/12/2016	Y Cov	WAS067

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Report Number: **COV/1344748/2016**

Issue **2**

Laboratory Number: **15745888**

Sample **3** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW24**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **12 December 2016**

Analysis Complete: **09 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	18.4	mg/l	15/12/2016	N Cov	WAS036
Nitrite as N	<0.08	mg/l	15/12/2016	N Cov	WAS036
Phosphates , Total as P	<1.2	mg/l	29/12/2016	Y Cov	WAS049
Sulphate as SO4	36.6	mg/l	15/12/2016	N Cov	WAS036
BOD + ATU (5 day)	2	mg/l	19/12/2016	Y Cov	WAS001
COD (Total)	83.0	mg/l	16/12/2016	Y Cov	WAS040
TOC (Filtered)	1.6	mg/l	15/12/2016	Y Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	19/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	19/12/2016	N Cov	WAS018
Sulphide as S	0.300	mg/l	28/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	14/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	09/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	09/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	09/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	19/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	09/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	09/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	09/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	09/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	09/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	09/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	09/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	09/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	09/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	09/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	09/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	09/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	09/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	09/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	09/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	09/01/2017	Y Cov	GEO47

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Report Number: **COV/1344748/2016**

Issue **2**

Laboratory Number: **15745888**

Sample **3** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW24**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **12 December 2016**

Analysis Complete: **09 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	09/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	09/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	09/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	09/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	09/01/2017	Y Cov	GEO47
Azinphos-ethyl	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	09/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	09/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	09/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	24/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	24/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	24/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	24/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	24/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	24/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	24/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	24/12/2016	Y Cov	GEO20

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Report Number: **COV/1344748/2016**

Issue **2**

Laboratory Number: **15745888**

Sample **3** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW24**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **12 December 2016**

Analysis Complete: **09 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	24/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	24/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	24/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	24/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	24/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	24/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	24/12/2016	Y Cov	GEO20
Mecoprop	<0.04	ug/l	24/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	16/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Naphthol	<0.10	ug/l	16/12/2016	N Cov	338
Phenol	<0.10	ug/l	16/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	16/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	20/12/2016	N Cov	GEO46

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Report Number: **COV/1344748/2016**

Issue **2**

Laboratory Number: **15745888**

Sample **3** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW24**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **12 December 2016**

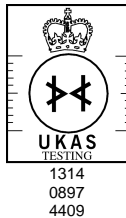
Analysis Complete: **09 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	<10	ug/l	21/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	<10	ug/l	21/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	<10	ug/l	21/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Anthracene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Chrysene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Fluoranthene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Fluorene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Naphthalene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Phenanthrene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Pyrene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
PAH, Total	<0.01	ug/l	06/01/2017	N Cov	GEO19
SVOC	Y	ug/l	18/12/2016	N Cov	GEO40
Phenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
3&4-Methylphenol	<1.0	ug/l	18/12/2016	N Cov	GEO40
Dibenzofuran	<1.0	ug/l	18/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40

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Report Number: **COV/1344748/2016**

Issue **2**

Laboratory Number: **15745888**

Sample **3** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW24**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **12 December 2016**

Analysis Complete: **09 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachloroethane	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Nitrobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Isophorone	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Nitrophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Naphthalene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Dimethylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthylene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Diethylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
4-Nitrophenol	<5.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Fluorene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Diphenylamine	<1.0	ug/l	18/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Pentachlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Phenanthrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40

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Report Number: **COV/1344748/2016**
 Laboratory Number: **15745888**

Issue **2**
 Sample **3** of **3**

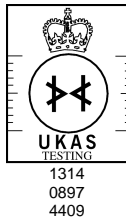
Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW24**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **12 December 2016**
 Sample Received: **12 December 2016**
 Analysis Complete: **09 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Chrysene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<5.0	ug/l	18/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Fluorophenol	96.0	%Recovery	18/12/2016	N Cov	GEO40
Phenol-d6	86.5	%Recovery	18/12/2016	N Cov	GEO40
Nitrobenzene-d5	85.7	%Recovery	18/12/2016	N Cov	GEO40
2-Fluorobiphenyl	86.9	%Recovery	18/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	88.8	%Recovery	18/12/2016	N Cov	GEO40
Terphenyl-d14	100.2	%Recovery	18/12/2016	N Cov	GEO40
Nitrite as NO2	<0.28	mg/l	15/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	24/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Report Number: **COV/1344748/2016**

Issue **2**

Laboratory Number: **15745888**

Sample **3** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW24**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **12 December 2016**

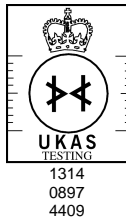
Analysis Complete: **09 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	29/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	29/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Benzene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	29/12/2016	Y S	SUBCON
Bromodichloromethane	0.14	ug/l	29/12/2016	Y S	SUBCON
Bromoform	<0.20	ug/l	29/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Chloroform	1.44	ug/l	29/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	29/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	29/12/2016	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Naphthalene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON

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Report Number: **COV/1344748/2016**

Issue **2**

Laboratory Number: **15745888**

Sample **3** of **3**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW24**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **12 December 2016**

Analysis Complete: **09 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	29/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	29/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	29/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	29/12/2016	Y S	SUBCON
Toluene	<0.50	ug/l	29/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	29/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	29/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	29/12/2016	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	29/12/2016	Y S	SUBCON

Analyst Comments for 15745888:

This sample has been analysed for Pesticides method GEO47, Aluminium, Total as Al, Magnesium, Total as Mg, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba outside recommended stability times. It is therefore possible that the results provided may be compromised. GEO40 SVOC Waters: See attached SVOC-TIC Report. The reporting limit has been raised for metals due to interference with the internal standard

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **P. Johal**

Date: **09 January 2017**

Title: **Microbiology Manager**

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Mr Downes
SKM Ireland c/o Jacobs
Engineering Ireland
Jacobs
Merrion House
Merrion Road
Dublin 4 South Dublin

18 January 2017

Test Report: COV/1345144/2016

Dear Mr Downes

Analysis of your sample(s) submitted on 13 December 2016 is now complete and we have pleasure in enclosing the appropriate test report(s).

An invoice for the analysis carried out will be sent under separate cover.

Should you have any queries regarding this report(s) or any part of our service, please contact Customer Services on +44 (0)24 7642 1213 who will be happy to discuss your requirements.

If you would like to arrange any further analysis, please contact Customer Services. To arrange container delivery or sample collection, please call the Couriers Department directly on 024 7685 6562.

Thank you for using ALS Environmental Ltd and we look forward to receiving your next samples.

Yours Sincerely,

Signed: 

Name: G. Arnold

Title: Inorganic Team Leader



Report Summary



1314
0897
4409



**Mr Ultan Downes
SKM Ireland c/o Jacobs
Engineering Ireland
Jacobs
Merrion House
Merrion Road
Dublin 4
South Dublin**

Date of Issue: **18 January 2017**

Report Number: **COV/1345144/2016**

Issue **3**

Job Description: Kerdiffstown Landfill

Number of Samples
included in this report **6**

Job Received: **13 December 2016**

Number of Test Results
included in this report **1650**

Analysis Commenced: **14 December 2016**

Signed:

Name: **G. Arnold**

Date: **18 January 2017**

Title: **Inorganic Team Leader**

ALS Environmental Ltd was not responsible for sampling unless otherwise stated. Sampling is not covered by our UKAS accreditation.

Information on the methods of analysis and performance characteristics are available on request.

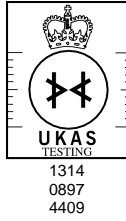
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. The results relate only to the items tested.

Tests marked 'Not UKAS Accredited' in this Report/Certificate are not included in the UKAS Accreditation Schedule for our laboratory.

This communication has been sent to you by ALS Environmental Ltd. Registered in England and Wales. Registration No. 02148934. Registered Office: ALS Environmental Limited, Torrington Avenue, Coventry, CV4 9GU.

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Certificate of Analysis



Report Number: **COV/1345144/2016**

Issue **3**

Laboratory Number: **15748890**

Sample **1** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW22**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	<0.5	mg/l	29/12/2016	N Cov	WAS043
Nitrate as NO3	7.6	mg/l	15/12/2016	N Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	29/12/2016	Y Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	29/12/2016	Y Cov	WAS060
Arsenic, Ultra Low Total as As	<0.0010	mg/l	29/12/2016	Y Cov	WAS060
Fluoride	0.195	mg/l	19/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	28/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	28/12/2016	Y S	SUBCON
Aluminium, Total as Al	0.6	mg/l	23/12/2016	Y Cov	WAS049
Barium, Total as Ba	0.080	mg/l	23/12/2016	Y Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	23/12/2016	Y Cov	WAS049
Boron, Total as B	<0.23	mg/l	23/12/2016	Y Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	23/12/2016	Y Cov	WAS049
Calcium , Total as Ca	106	mg/l	23/12/2016	Y Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	23/12/2016	Y Cov	WAS049
Copper, Ultra-low Total as Cu	8.2	ug/l	29/12/2016	Y Cov	WAS060
Iron , Total as Fe	0.91	mg/l	23/12/2016	Y Cov	WAS049
Ferrous Iron	<0.5	mg/l	29/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	29/12/2016	N Cov	WAS043
Lead , Total as Pb	0.007	mg/l	23/12/2016	Y Cov	WAS049
Magnesium, Total as Mg	19.7	mg/l	23/12/2016	Y Cov	WAS049
Manganese , Total as Mn	0.657	mg/l	23/12/2016	Y Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	21/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.008	mg/l	23/12/2016	Y Cov	WAS049
Potassium , Total as K	2.38	mg/l	23/12/2016	Y Cov	WAS049
Sodium , Total as Na	15.5	mg/l	23/12/2016	Y Cov	WAS049
Vanadium , Total as V	<0.004	mg/l	23/12/2016	Y Cov	WAS049
Zinc, Total as Zn	0.03	mg/l	23/12/2016	Y Cov	WAS049
pH	7.4	pH units	14/12/2016	Y Cov	WAS039
Conductivity- Electrical 20C	710	uS/cm	14/12/2016	Y Cov	WAS039
Alkalinity as CaCO3	322	mg/l	29/12/2016	Y Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	14/12/2016	Y Cov	WAS067

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Report Number: **COV/1345144/2016**

Issue **3**

Laboratory Number: **15748890**

Sample **1** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW22**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	35.0	mg/l	15/12/2016	N Cov	WAS036
Nitrite as N	<0.08	mg/l	15/12/2016	N Cov	WAS036
Phosphates , Total as P	0.24	mg/l	23/12/2016	Y Cov	WAS049
Sulphate as SO4	84.1	mg/l	15/12/2016	N Cov	WAS036
BOD + ATU (5 day)	2	mg/l	19/12/2016	Y Cov	WAS001
COD (Total)	18.0	mg/l	16/12/2016	Y Cov	WAS040
TOC (Filtered)	0.8	mg/l	18/12/2016	Y Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	16/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	16/12/2016	N Cov	WAS018
Sulphide as S	0.059	mg/l	28/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	14/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	09/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	09/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	09/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	19/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	09/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	09/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	09/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	09/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	09/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	09/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	09/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	09/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	09/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	09/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	09/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	09/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	09/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	09/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	09/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	09/01/2017	Y Cov	GEO47

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Issue **3**

Laboratory Number: **15748890**

Sample **1** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW22**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	09/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	09/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	09/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	09/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	09/01/2017	Y Cov	GEO47
Azinphos-ethyl	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	09/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	09/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	09/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	28/12/2016	Y Cov	GEO20

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Sample **1** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW22**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

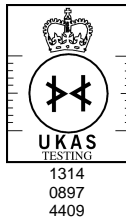
Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	28/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	28/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Mecoprop	0.05	ug/l	28/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	15/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	15/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	15/12/2016	N Cov	338
Naphthol	<0.10	ug/l	15/12/2016	N Cov	338
Phenol	<0.10	ug/l	15/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	15/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	15/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	20/12/2016	N Cov	GEO46

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Issue **3**

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Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW22**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

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Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	<10	ug/l	21/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	<10	ug/l	21/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	<10	ug/l	21/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Anthracene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Chrysene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Fluoranthene	0.014	ug/l	06/01/2017	Y Cov	GEO19
Fluorene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Naphthalene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Phenanthrene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Pyrene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
PAH, Total	0.014	ug/l	06/01/2017	N Cov	GEO19
SVOC	Y	ug/l	18/12/2016	N Cov	GEO40
Phenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
3&4-Methylphenol	<1.0	ug/l	18/12/2016	N Cov	GEO40
Dibenzofuran	<1.0	ug/l	18/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40

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Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW22**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachloroethane	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Nitrobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Isophorone	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Nitrophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Naphthalene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Dimethylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthylene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Diethylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
4-Nitrophenol	<5.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Fluorene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Diphenylamine	<1.0	ug/l	18/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Pentachlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Phenanthrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40

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Issue **3**
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Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW22**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **12 December 2016**
 Sample Received: **13 December 2016**
 Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Chrysene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<5.0	ug/l	18/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Fluorophenol	96.4	%Recovery	18/12/2016	N Cov	GEO40
Phenol-d6	70.2	%Recovery	18/12/2016	N Cov	GEO40
Nitrobenzene-d5	89.6	%Recovery	18/12/2016	N Cov	GEO40
2-Fluorobiphenyl	88.3	%Recovery	18/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	84.2	%Recovery	18/12/2016	N Cov	GEO40
Terphenyl-d14	96.8	%Recovery	18/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	22/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	28/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	28/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	28/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	28/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	28/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	28/12/2016	Y S	SUBCON

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Sample **1** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW22**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

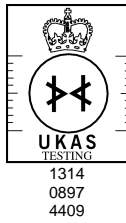
Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	28/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	28/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	28/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	28/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	28/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	28/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Benzene	<0.20	ug/l	28/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	28/12/2016	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	28/12/2016	Y S	SUBCON
Bromoform	<0.20	ug/l	28/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	28/12/2016	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
Chloroform	<0.10	ug/l	28/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	28/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	28/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	28/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	28/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	28/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	28/12/2016	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	28/12/2016	Y S	SUBCON
Naphthalene	<1.0	ug/l	28/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON

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Report Number: **COV/1345144/2016**

Issue **3**

Laboratory Number: **15748890**

Sample **1** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW22**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	28/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	28/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	28/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	28/12/2016	Y S	SUBCON
Toluene	<0.50	ug/l	28/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	28/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	28/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	28/12/2016	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	28/12/2016	Y S	SUBCON

Analyst Comments for 15748890:

This sample has been analysed for Pesticides method GEO47, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba outside recommended stability times. It is therefore possible that the results provided may be compromised. GEO40 SVOC Waters: See attached SVOC-TIC Report. {*/}The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis.{*/}

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **G. Arnold**

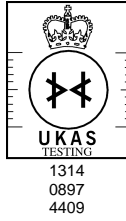
Date: **18 January 2017**

Title: **Inorganic Team Leader**

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Report Number: **COV/1345144/2016**

Issue **3**

Laboratory Number: **15748891**

Sample **2** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW23**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	<0.5	mg/l	29/12/2016	N Cov	WAS043
Nitrate as NO3	15.6	mg/l	15/12/2016	N Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	29/12/2016	Y Cov	WAS060
Selenium Ultra Low Total as Se	0.0026	mg/l	29/12/2016	Y Cov	WAS060
Arsenic, Ultra Low Total as As	<0.0010	mg/l	29/12/2016	Y Cov	WAS060
Fluoride	0.075	mg/l	19/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	28/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	28/12/2016	Y S	SUBCON
Aluminium, Total as Al	1.2	mg/l	23/12/2016	Y Cov	WAS049
Barium, Total as Ba	0.107	mg/l	23/12/2016	Y Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	23/12/2016	Y Cov	WAS049
Boron, Total as B	<0.23	mg/l	23/12/2016	Y Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	23/12/2016	Y Cov	WAS049
Calcium , Total as Ca	141	mg/l	23/12/2016	Y Cov	WAS049
Chromium , Total as Cr	0.003	mg/l	23/12/2016	Y Cov	WAS049
Copper, Ultra-low Total as Cu	7.7	ug/l	29/12/2016	Y Cov	WAS060
Iron , Total as Fe	2.04	mg/l	23/12/2016	Y Cov	WAS049
Ferrous Iron	<0.5	mg/l	29/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	29/12/2016	N Cov	WAS043
Lead , Total as Pb	0.007	mg/l	23/12/2016	Y Cov	WAS049
Magnesium, Total as Mg	11.8	mg/l	23/12/2016	Y Cov	WAS049
Manganese , Total as Mn	0.389	mg/l	23/12/2016	Y Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	21/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.009	mg/l	23/12/2016	Y Cov	WAS049
Potassium , Total as K	11.7	mg/l	23/12/2016	Y Cov	WAS049
Sodium , Total as Na	7.79	mg/l	23/12/2016	Y Cov	WAS049
Vanadium , Total as V	0.005	mg/l	23/12/2016	Y Cov	WAS049
Zinc, Total as Zn	0.03	mg/l	23/12/2016	Y Cov	WAS049
pH	7.3	pH units	14/12/2016	Y Cov	WAS039
Conductivity- Electrical 20C	651	uS/cm	14/12/2016	Y Cov	WAS039
Alkalinity as CaCO3	389	mg/l	29/12/2016	Y Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	14/12/2016	Y Cov	WAS067

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Report Number: **COV/1345144/2016**

Issue **3**

Laboratory Number: **15748891**

Sample **2** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW23**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	11.4	mg/l	15/12/2016	N Cov	WAS036
Nitrite as N	<0.08	mg/l	15/12/2016	N Cov	WAS036
Phosphates , Total as P	0.19	mg/l	23/12/2016	Y Cov	WAS049
Sulphate as SO4	26.8	mg/l	15/12/2016	N Cov	WAS036
BOD + ATU (5 day)	2	mg/l	19/12/2016	Y Cov	WAS001
COD (Total)	48.0	mg/l	16/12/2016	Y Cov	WAS040
TOC (Filtered)	1.1	mg/l	18/12/2016	Y Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	16/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	16/12/2016	N Cov	WAS018
Sulphide as S	0.020	mg/l	28/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	14/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	09/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	09/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	09/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	19/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	09/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	09/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	09/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	09/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	09/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	09/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	09/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	09/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	09/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	09/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	09/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	09/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	09/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	09/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	09/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	09/01/2017	Y Cov	GEO47

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Report Number: **COV/1345144/2016**

Issue **3**

Laboratory Number: **15748891**

Sample **2** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW23**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

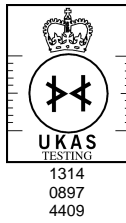
Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	09/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	09/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	09/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	09/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	09/01/2017	Y Cov	GEO47
Azinphos-ethyl	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	09/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	09/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	09/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	28/12/2016	Y Cov	GEO20

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Report Number: **COV/1345144/2016**

Issue **3**

Laboratory Number: **15748891**

Sample **2** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW23**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	28/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	28/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Mecoprop	<0.04	ug/l	28/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	15/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	15/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	15/12/2016	N Cov	338
Naphthol	<0.10	ug/l	15/12/2016	N Cov	338
Phenol	<0.10	ug/l	15/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	15/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	15/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	20/12/2016	N Cov	GEO46

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Report Number: **COV/1345144/2016**

Issue **3**

Laboratory Number: **15748891**

Sample **2** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW23**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	<10	ug/l	21/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	<10	ug/l	21/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	<10	ug/l	21/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Anthracene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Chrysene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Fluoranthene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Fluorene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Naphthalene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Phenanthrene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Pyrene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
PAH, Total	<0.01	ug/l	06/01/2017	N Cov	GEO19
SVOC	Y	ug/l	18/12/2016	N Cov	GEO40
Phenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
3&4-Methylphenol	<1.0	ug/l	18/12/2016	N Cov	GEO40
Dibenzofuran	<1.0	ug/l	18/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40

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Issue **3**

Laboratory Number: **15748891**

Sample **2** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW23**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

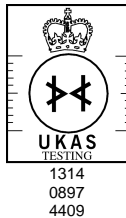
Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachloroethane	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Nitrobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Isophorone	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Nitrophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Naphthalene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Dimethylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthylene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Diethylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
4-Nitrophenol	<5.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Fluorene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Diphenylamine	<1.0	ug/l	18/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Pentachlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Phenanthrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40

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Report Number: **COV/1345144/2016**
 Laboratory Number: **15748891**

Issue **3**
 Sample **2** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW23**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **12 December 2016**
 Sample Received: **13 December 2016**
 Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Chrysene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<5.0	ug/l	18/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Fluorophenol	95.7	%Recovery	18/12/2016	N Cov	GEO40
Phenol-d6	74.0	%Recovery	18/12/2016	N Cov	GEO40
Nitrobenzene-d5	88.0	%Recovery	18/12/2016	N Cov	GEO40
2-Fluorobiphenyl	90.1	%Recovery	18/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	81.8	%Recovery	18/12/2016	N Cov	GEO40
Terphenyl-d14	100.0	%Recovery	18/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	22/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	28/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	28/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	28/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	28/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	28/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	28/12/2016	Y S	SUBCON

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Issue **3**

Laboratory Number: **15748891**

Sample **2** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW23**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	28/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	28/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	28/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	28/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	28/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	28/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Benzene	<0.20	ug/l	28/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	28/12/2016	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	28/12/2016	Y S	SUBCON
Bromoform	6.86	ug/l	28/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	28/12/2016	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
Chloroform	<0.10	ug/l	28/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	28/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	28/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Dibromochloromethane	0.43	ug/l	28/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	28/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	28/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	28/12/2016	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	28/12/2016	Y S	SUBCON
Naphthalene	<1.0	ug/l	28/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON

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Laboratory Number: **15748891**

Issue **3**
Sample **2** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
Sample Point Description:
Sample Description: **EMW23**
Sample Matrix: **Ground Water**
Sample Date/Time: **12 December 2016**
Sample Received: **13 December 2016**
Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	28/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	28/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	28/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	28/12/2016	Y S	SUBCON
Toluene	<0.50	ug/l	28/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	28/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	28/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	28/12/2016	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	28/12/2016	Y S	SUBCON

Analyst Comments for 15748891:

This sample has been analysed for Pesticides method GEO47, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba outside recommended stability times. It is therefore possible that the results provided may be compromised. GEO40 SVOC Waters: See attached SVOC-TIC Report. {*/}The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis.{*/}

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).
For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **G. Arnold**

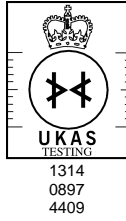
Date: **18 January 2017**

Title: **Inorganic Team Leader**

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Report Number: **COV/1345144/2016**

Issue **3**

Laboratory Number: **15748892**

Sample **3** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW31**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

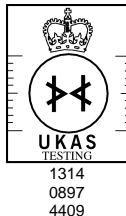
Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	22.1	mg/l	29/12/2016	N Cov	WAS043
Nitrate as NO3	<3.1	mg/l	15/12/2016	N Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	29/12/2016	Y Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	29/12/2016	Y Cov	WAS060
Arsenic, Ultra Low Total as As	0.0026	mg/l	29/12/2016	Y Cov	WAS060
Fluoride	<0.100	mg/l	19/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	28/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	28/12/2016	Y S	SUBCON
Aluminium, Total as Al	0.2	mg/l	23/12/2016	Y Cov	WAS049
Barium, Total as Ba	0.229	mg/l	23/12/2016	Y Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	23/12/2016	Y Cov	WAS049
Boron, Total as B	<0.23	mg/l	23/12/2016	Y Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	23/12/2016	Y Cov	WAS049
Calcium , Total as Ca	172	mg/l	23/12/2016	Y Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	23/12/2016	Y Cov	WAS049
Copper, Ultra-low Total as Cu	10	ug/l	29/12/2016	Y Cov	WAS060
Iron , Total as Fe	22.0	mg/l	23/12/2016	Y Cov	WAS049
Ferrous Iron	22.0	mg/l	29/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	29/12/2016	N Cov	WAS043
Lead , Total as Pb	0.007	mg/l	23/12/2016	Y Cov	WAS049
Magnesium, Total as Mg	10.6	mg/l	23/12/2016	Y Cov	WAS049
Manganese , Total as Mn	2.13	mg/l	23/12/2016	Y Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	21/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.004	mg/l	23/12/2016	Y Cov	WAS049
Potassium , Total as K	1.49	mg/l	23/12/2016	Y Cov	WAS049
Sodium , Total as Na	12.2	mg/l	23/12/2016	Y Cov	WAS049
Vanadium , Total as V	<0.004	mg/l	23/12/2016	Y Cov	WAS049
Zinc, Total as Zn	<0.018	mg/l	23/12/2016	Y Cov	WAS049
pH	6.9	pH units	14/12/2016	Y Cov	WAS039
Conductivity- Electrical 20C	800	uS/cm	14/12/2016	Y Cov	WAS039
Alkalinity as CaCO3	467	mg/l	29/12/2016	Y Cov	WAS025
Ammoniacal Nitrogen as N (LL)	2.82	mg/l	14/12/2016	Y Cov	WAS067

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Issue **3**

Laboratory Number: **15748892**

Sample **3** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW31**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	19.9	mg/l	15/12/2016	N Cov	WAS036
Nitrite as N	<0.08	mg/l	15/12/2016	N Cov	WAS036
Phosphates , Total as P	0.44	mg/l	23/12/2016	Y Cov	WAS049
Sulphate as SO4	30.8	mg/l	15/12/2016	N Cov	WAS036
BOD + ATU (5 day)	4	mg/l	19/12/2016	Y Cov	WAS001
COD (Total)	31.0	mg/l	16/12/2016	Y Cov	WAS040
TOC (Filtered)	5.2	mg/l	18/12/2016	Y Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	16/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	16/12/2016	N Cov	WAS018
Sulphide as S	<0.020	mg/l	28/12/2016	N Cov	WAS033
Formaldehyde	0.857	mg/l	14/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	09/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	09/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	09/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	19/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	09/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	09/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	09/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	09/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	09/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	09/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	09/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	09/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	09/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	09/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	09/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	09/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	09/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	09/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	09/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	09/01/2017	Y Cov	GEO47

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Sample **3** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW31**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	09/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	09/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	09/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	09/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	09/01/2017	Y Cov	GEO47
Azinphos-ethyl	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	09/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	09/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	09/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	28/12/2016	Y Cov	GEO20

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Sample **3** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW31**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	28/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	28/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Mecoprop	<0.04	ug/l	28/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	15/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	15/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	15/12/2016	N Cov	338
Naphthol	<0.10	ug/l	15/12/2016	N Cov	338
Phenol	<0.10	ug/l	15/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	15/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	15/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	20/12/2016	N Cov	GEO46

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Report Number: **COV/1345144/2016**

Issue **3**

Laboratory Number: **15748892**

Sample **3** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW31**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

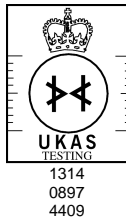
Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	<10	ug/l	21/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	<10	ug/l	21/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	<10	ug/l	21/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.02	ug/l	06/01/2017	Y Cov	GEO19
Acenaphthylene	<0.02	ug/l	06/01/2017	Y Cov	GEO19
Anthracene	<0.02	ug/l	06/01/2017	Y Cov	GEO19
Benzo (a) anthracene	<0.02	ug/l	06/01/2017	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.02	ug/l	06/01/2017	Y Cov	GEO19
Benzo (a) pyrene	<0.02	ug/l	06/01/2017	Y Cov	GEO19
Benzo (b) fluoranthene	<0.02	ug/l	06/01/2017	Y Cov	GEO19
Benzo (k) fluoranthene	<0.04	ug/l	06/01/2017	Y Cov	GEO19
Chrysene	<0.02	ug/l	06/01/2017	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.02	ug/l	06/01/2017	Y Cov	GEO19
Fluoranthene	<0.02	ug/l	06/01/2017	Y Cov	GEO19
Fluorene	<0.02	ug/l	06/01/2017	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.02	ug/l	06/01/2017	Y Cov	GEO19
Naphthalene	<0.02	ug/l	06/01/2017	Y Cov	GEO19
Phenanthrene	<0.02	ug/l	06/01/2017	Y Cov	GEO19
Pyrene	<0.02	ug/l	06/01/2017	Y Cov	GEO19
PAH, Total	<0.04	ug/l	06/01/2017	N Cov	GEO19
SVOC	Y	ug/l	18/12/2016	N Cov	GEO40
Phenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chlorophenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylphenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
3&4-Methylphenol	<2.0	ug/l	18/12/2016	N Cov	GEO40
Dibenzofuran	<2.0	ug/l	18/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<2.0	ug/l	18/12/2016	Y Cov	GEO40

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Issue **3**

Laboratory Number: **15748892**

Sample **3** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW31**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

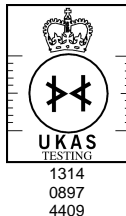
Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<2.0	ug/l	18/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachloroethane	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Nitrobenzene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Isophorone	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2-Nitrophenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Naphthalene	<4.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Dimethylphthalate	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthylene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Diethylphthalate	<2.0	ug/l	18/12/2016	Y Cov	GEO40
4-Nitrophenol	<10.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Fluorene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Diphenylamine	<2.0	ug/l	18/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobenzene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Pentachlorophenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Phenanthrene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Anthracene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<2.0	ug/l	18/12/2016	Y Cov	GEO40

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Issue **3**

Laboratory Number: **15748892**

Sample **3** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW31**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Pyrene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Chrysene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<10.0	ug/l	18/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2-Fluorophenol	88.2	%Recovery	18/12/2016	N Cov	GEO40
Phenol-d6	81.1	%Recovery	18/12/2016	N Cov	GEO40
Nitrobenzene-d5	77.0	%Recovery	18/12/2016	N Cov	GEO40
2-Fluorobiphenyl	77.7	%Recovery	18/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	68.3	%Recovery	18/12/2016	N Cov	GEO40
Terphenyl-d14	87.1	%Recovery	18/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	22/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	28/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	28/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	28/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	28/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	28/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	28/12/2016	Y S	SUBCON

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Report Number: **COV/1345144/2016**

Issue **3**

Laboratory Number: **15748892**

Sample **3** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW31**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

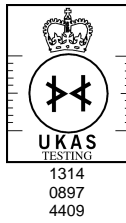
Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	28/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	28/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	28/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	28/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	28/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	28/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Benzene	<0.20	ug/l	28/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	28/12/2016	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	28/12/2016	Y S	SUBCON
Bromoform	<0.20	ug/l	28/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	28/12/2016	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
Chloroform	<0.10	ug/l	28/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	28/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	28/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	28/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	28/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	28/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	28/12/2016	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	28/12/2016	Y S	SUBCON
Naphthalene	<1.0	ug/l	28/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON

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Issue **3**

Laboratory Number: **15748892**

Sample **3** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW31**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	28/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	28/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	28/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	28/12/2016	Y S	SUBCON
Toluene	<0.50	ug/l	28/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	28/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	28/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	28/12/2016	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	28/12/2016	Y S	SUBCON

Analyst Comments for 15748892:

This sample has been analysed for Pesticides method GEO47, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba outside recommended stability times. It is therefore possible that the results provided may be compromised. GEO40 SVOC Waters: Reporting limits raised due to the nature of the sample matrix. See attached SVOC-TIC Report.
{/*}The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis.{*/}
The total PAH does not include Benzo(k)fluoranthene as the reporting limit for this compound has been raised due to interference. The reporting limits for the rest of PAH compounds also have been raised due to the nature of sample matrix.

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG). For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **G. Arnold**

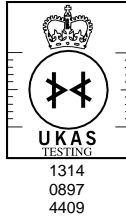
Date: **18 January 2017**

Title: **Inorganic Team Leader**

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Report Number: **COV/1345144/2016**

Issue **3**

Laboratory Number: **15748893**

Sample **4** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW32**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

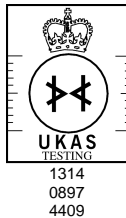
Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	0.5	mg/l	29/12/2016	N Cov	WAS043
Nitrate as NO3	<3.1	mg/l	15/12/2016	N Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	29/12/2016	Y Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	29/12/2016	Y Cov	WAS060
Arsenic, Ultra Low Total as As	<0.0010	mg/l	29/12/2016	Y Cov	WAS060
Fluoride	0.120	mg/l	19/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	28/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	28/12/2016	Y S	SUBCON
Aluminium, Total as Al	1.2	mg/l	23/12/2016	Y Cov	WAS049
Barium, Total as Ba	0.189	mg/l	23/12/2016	Y Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	23/12/2016	Y Cov	WAS049
Boron, Total as B	<0.23	mg/l	23/12/2016	Y Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	23/12/2016	Y Cov	WAS049
Calcium , Total as Ca	149	mg/l	23/12/2016	Y Cov	WAS049
Chromium , Total as Cr	0.003	mg/l	23/12/2016	Y Cov	WAS049
Copper, Ultra-low Total as Cu	9.8	ug/l	29/12/2016	Y Cov	WAS060
Iron , Total as Fe	1.90	mg/l	23/12/2016	Y Cov	WAS049
Ferrous Iron	0.5	mg/l	29/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	29/12/2016	N Cov	WAS043
Lead , Total as Pb	<0.006	mg/l	23/12/2016	Y Cov	WAS049
Magnesium, Total as Mg	15.7	mg/l	23/12/2016	Y Cov	WAS049
Manganese , Total as Mn	1.25	mg/l	23/12/2016	Y Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	21/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.011	mg/l	23/12/2016	Y Cov	WAS049
Potassium , Total as K	6.73	mg/l	23/12/2016	Y Cov	WAS049
Sodium , Total as Na	9.75	mg/l	23/12/2016	Y Cov	WAS049
Vanadium , Total as V	0.005	mg/l	23/12/2016	Y Cov	WAS049
Zinc, Total as Zn	0.03	mg/l	23/12/2016	Y Cov	WAS049
pH	7.2	pH units	14/12/2016	Y Cov	WAS039
Conductivity- Electrical 20C	654	uS/cm	14/12/2016	Y Cov	WAS039
Alkalinity as CaCO3	408	mg/l	29/12/2016	Y Cov	WAS025
Ammoniacal Nitrogen as N (LL)	0.12	mg/l	14/12/2016	Y Cov	WAS067

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Report Number: **COV/1345144/2016**

Issue **3**

Laboratory Number: **15748893**

Sample **4** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW32**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	18.2	mg/l	15/12/2016	N Cov	WAS036
Nitrite as N	<0.08	mg/l	15/12/2016	N Cov	WAS036
Phosphates , Total as P	0.17	mg/l	23/12/2016	Y Cov	WAS049
Sulphate as SO4	24.6	mg/l	15/12/2016	N Cov	WAS036
BOD + ATU (5 day)	<1	mg/l	19/12/2016	Y Cov	WAS001
COD (Total)	52.0	mg/l	16/12/2016	Y Cov	WAS040
TOC (Filtered)	1.2	mg/l	18/12/2016	Y Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	16/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	16/12/2016	N Cov	WAS018
Sulphide as S	0.026	mg/l	28/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	14/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	09/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	09/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	09/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	19/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	09/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	09/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	09/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	09/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	09/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	09/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	09/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	09/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	09/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	09/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	09/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	09/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	09/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	09/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	09/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	09/01/2017	Y Cov	GEO47

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Report Number: **COV/1345144/2016**

Issue **3**

Laboratory Number: **15748893**

Sample **4** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW32**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	09/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	09/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	09/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	09/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	09/01/2017	Y Cov	GEO47
Azinphos-ethyl	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	09/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	09/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	09/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	28/12/2016	Y Cov	GEO20

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Report Number: **COV/1345144/2016**
 Laboratory Number: **15748893**

Issue **3**
 Sample **4** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW32**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **12 December 2016**
 Sample Received: **13 December 2016**
 Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	28/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	28/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Mecoprop	<0.04	ug/l	28/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	15/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	15/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	15/12/2016	N Cov	338
Naphthol	<0.10	ug/l	15/12/2016	N Cov	338
Phenol	<0.10	ug/l	15/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	15/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	15/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	20/12/2016	N Cov	GEO46

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Sample **4** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW32**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	<10	ug/l	21/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	<10	ug/l	21/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	<10	ug/l	21/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Anthracene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Benzo (k) fluoranthene	<0.05	ug/l	06/01/2017	Y Cov	GEO19
Chrysene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Fluoranthene	0.022	ug/l	06/01/2017	Y Cov	GEO19
Fluorene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Naphthalene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Phenanthrene	0.028	ug/l	06/01/2017	Y Cov	GEO19
Pyrene	0.034	ug/l	06/01/2017	Y Cov	GEO19
PAH, Total	0.084	ug/l	06/01/2017	N Cov	GEO19
SVOC	Y	ug/l	18/12/2016	N Cov	GEO40
Phenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
3&4-Methylphenol	<1.0	ug/l	18/12/2016	N Cov	GEO40
Dibenzofuran	<1.0	ug/l	18/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40

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Sample **4** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW32**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

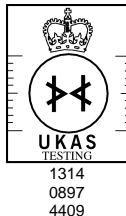
Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachloroethane	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Nitrobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Isophorone	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Nitrophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Naphthalene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Dimethylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthylene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Diethylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
4-Nitrophenol	<5.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Fluorene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Diphenylamine	<1.0	ug/l	18/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Pentachlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Phenanthrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40

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Certificate of Analysis



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Sample **4** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW32**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Chrysene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<5.0	ug/l	18/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Fluorophenol	99.8	%Recovery	18/12/2016	N Cov	GEO40
Phenol-d6	80.7	%Recovery	18/12/2016	N Cov	GEO40
Nitrobenzene-d5	91.8	%Recovery	18/12/2016	N Cov	GEO40
2-Fluorobiphenyl	95.3	%Recovery	18/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	79.9	%Recovery	18/12/2016	N Cov	GEO40
Terphenyl-d14	101.0	%Recovery	18/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	22/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	28/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	28/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	28/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	28/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	28/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	28/12/2016	Y S	SUBCON

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Laboratory Number: **15748893**

Sample **4** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW32**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

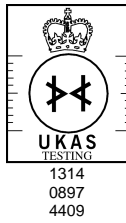
Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	28/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	28/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	28/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	28/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	28/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	28/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Benzene	<0.20	ug/l	28/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	28/12/2016	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	28/12/2016	Y S	SUBCON
Bromoform	<0.20	ug/l	28/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	28/12/2016	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
Chloroform	<0.10	ug/l	28/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	28/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	28/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	28/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	28/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	28/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	28/12/2016	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	28/12/2016	Y S	SUBCON
Naphthalene	<1.0	ug/l	28/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON

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Issue **3**

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Sample **4** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW32**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	28/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	28/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	28/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	28/12/2016	Y S	SUBCON
Toluene	<0.50	ug/l	28/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	28/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	28/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	28/12/2016	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	28/12/2016	Y S	SUBCON

Analyst Comments for 15748893:

This sample has been analysed for Pesticides method GEO47, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba outside recommended stability times. It is therefore possible that the results provided may be compromised. GEO40 SVOC Waters: See attached SVOC-TIC Report.

{/*}The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferrous ratio between sampling and analysis.{*/}

The total PAH does not include Benzo(k)fluoranthene as the reporting limit for this compound has been raised due to interference.

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **G. Arnold**

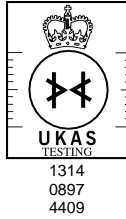
Date: **18 January 2017**

Title: **Inorganic Team Leader**

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Report Number: **COV/1345144/2016**

Issue **3**

Laboratory Number: **15748894**

Sample **5** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW33**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	1.8	mg/l	29/12/2016	N Cov	WAS043
Nitrate as NO3	<3.1	mg/l	15/12/2016	N Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	29/12/2016	Y Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	29/12/2016	Y Cov	WAS060
Arsenic, Ultra Low Total as As	0.027	mg/l	29/12/2016	Y Cov	WAS060
Fluoride	0.078	mg/l	19/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	28/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	28/12/2016	Y S	SUBCON
Aluminium, Total as Al	0.1	mg/l	23/12/2016	Y Cov	WAS049
Barium, Total as Ba	0.120	mg/l	23/12/2016	Y Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	23/12/2016	Y Cov	WAS049
Boron, Total as B	<0.23	mg/l	23/12/2016	Y Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	23/12/2016	Y Cov	WAS049
Calcium , Total as Ca	113	mg/l	23/12/2016	Y Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	23/12/2016	Y Cov	WAS049
Copper, Ultra-low Total as Cu	2.8	ug/l	29/12/2016	Y Cov	WAS060
Iron , Total as Fe	9.09	mg/l	23/12/2016	Y Cov	WAS049
Ferrous Iron	1.7	mg/l	29/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	29/12/2016	N Cov	WAS043
Lead , Total as Pb	<0.006	mg/l	23/12/2016	Y Cov	WAS049
Magnesium, Total as Mg	11.3	mg/l	23/12/2016	Y Cov	WAS049
Manganese , Total as Mn	0.459	mg/l	23/12/2016	Y Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	21/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.003	mg/l	23/12/2016	Y Cov	WAS049
Potassium , Total as K	1.40	mg/l	23/12/2016	Y Cov	WAS049
Sodium , Total as Na	9.18	mg/l	23/12/2016	Y Cov	WAS049
Vanadium , Total as V	0.004	mg/l	23/12/2016	Y Cov	WAS049
Zinc, Total as Zn	<0.018	mg/l	23/12/2016	Y Cov	WAS049
pH	7.6	pH units	14/12/2016	Y Cov	WAS039
Conductivity- Electrical 20C	532	uS/cm	14/12/2016	Y Cov	WAS039
Alkalinity as CaCO3	310	mg/l	29/12/2016	Y Cov	WAS025
Ammoniacal Nitrogen as N (LL)	0.20	mg/l	14/12/2016	Y Cov	WAS067

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Issue **3**

Laboratory Number: **15748894**

Sample **5** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW33**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	16.1	mg/l	15/12/2016	N Cov	WAS036
Nitrite as N	<0.08	mg/l	15/12/2016	N Cov	WAS036
Phosphates , Total as P	1.2	mg/l	23/12/2016	Y Cov	WAS049
Sulphate as SO4	11.1	mg/l	15/12/2016	N Cov	WAS036
BOD + ATU (5 day)	54	mg/l	19/12/2016	Y Cov	WAS001
COD (Total)	<11.0	mg/l	16/12/2016	Y Cov	WAS040
TOC (Filtered)	1.6	mg/l	18/12/2016	Y Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	16/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	16/12/2016	N Cov	WAS018
Sulphide as S	0.023	mg/l	28/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	14/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	09/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	09/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	09/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	19/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	09/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	09/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	09/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	09/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	09/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	09/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	09/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	09/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	09/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	09/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	09/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	09/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	09/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	09/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	09/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	09/01/2017	Y Cov	GEO47

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Issue **3**

Laboratory Number: **15748894**

Sample **5** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW33**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	09/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	09/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	09/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	09/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	09/01/2017	Y Cov	GEO47
Azinphos-ethyl	Analyst Com	ug/l	18/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	09/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	09/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	16/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	16/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	28/12/2016	Y Cov	GEO20

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Issue **3**

Laboratory Number: **15748894**

Sample **5** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW33**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

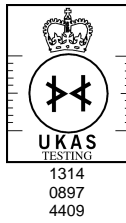
Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	28/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	28/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Mecoprop	<0.04	ug/l	28/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	15/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	15/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	15/12/2016	N Cov	338
Naphthol	<0.10	ug/l	15/12/2016	N Cov	338
Phenol	<0.10	ug/l	15/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	15/12/2016	N Cov	338
Phenols, Total	0.67	ug/l	15/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	20/12/2016	N Cov	GEO46

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 Laboratory Number: **15748894**

Issue **3**
 Sample **5** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW33**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **12 December 2016**
 Sample Received: **13 December 2016**
 Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	<10	ug/l	21/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	<10	ug/l	21/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	<10	ug/l	21/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Anthracene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Chrysene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Fluoranthene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Fluorene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Naphthalene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Phenanthrene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
Pyrene	<0.01	ug/l	06/01/2017	Y Cov	GEO19
PAH, Total	<0.01	ug/l	06/01/2017	N Cov	GEO19
SVOC	Y	ug/l	18/12/2016	N Cov	GEO40
Phenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
3&4-Methylphenol	<1.0	ug/l	18/12/2016	N Cov	GEO40
Dibenzofuran	<1.0	ug/l	18/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40

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Issue **3**

Laboratory Number: **15748894**

Sample **5** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW33**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachloroethane	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Nitrobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Isophorone	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Nitrophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Naphthalene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Dimethylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthylene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Diethylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
4-Nitrophenol	<5.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Fluorene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Diphenylamine	<1.0	ug/l	18/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Pentachlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Phenanthrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40

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Issue **3**
 Sample **5** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW33**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **12 December 2016**
 Sample Received: **13 December 2016**
 Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Chrysene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<5.0	ug/l	18/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Fluorophenol	103.4	%Recovery	18/12/2016	N Cov	GEO40
Phenol-d6	77.9	%Recovery	18/12/2016	N Cov	GEO40
Nitrobenzene-d5	90.2	%Recovery	18/12/2016	N Cov	GEO40
2-Fluorobiphenyl	92.0	%Recovery	18/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	77.9	%Recovery	18/12/2016	N Cov	GEO40
Terphenyl-d14	101.4	%Recovery	18/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	22/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	28/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	28/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	28/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	28/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	28/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	28/12/2016	Y S	SUBCON

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Report Number: **COV/1345144/2016**

Issue **3**

Laboratory Number: **15748894**

Sample **5** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW33**

Sample Matrix: **Ground Water**

Sample Date/Time: **12 December 2016**

Sample Received: **13 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	28/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	28/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	28/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	28/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	28/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	28/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Benzene	<0.20	ug/l	28/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	28/12/2016	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	28/12/2016	Y S	SUBCON
Bromoform	<0.20	ug/l	28/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	28/12/2016	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
Chloroform	<0.10	ug/l	28/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	28/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	28/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	28/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	28/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	28/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	28/12/2016	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	28/12/2016	Y S	SUBCON
Naphthalene	<1.0	ug/l	28/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON

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Report Number: **COV/1345144/2016**
 Laboratory Number: **15748894**

Issue **3**
 Sample **5** of **6**


Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW33**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **12 December 2016**
 Sample Received: **13 December 2016**
 Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	28/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	28/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	28/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	28/12/2016	Y S	SUBCON
Toluene	<0.50	ug/l	28/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	28/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	28/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	28/12/2016	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	28/12/2016	Y S	SUBCON

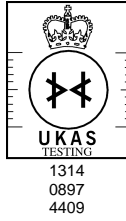
Analyst Comments for 15748894:

This sample has been analysed for Pesticides method GEO47, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba outside recommended stability times. It is therefore possible that the results provided may be compromised. GEO40 SVOC Waters: See attached SVOC-TIC Report.
 Integrity breach between BOD and COD. BOD result confirmed by raw data check and COD confirmed by repeat analysis. {*/}The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis.{*/}
 AQC failure for Azinphos-Ethyl is unable to indicate.

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.
 Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).
 For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).
 I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: 	Name: G. Arnold	Date: 18 January 2017
	Title: Inorganic Team Leader	

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Report Number: **COV/1345144/2016**

Issue **3**

Laboratory Number: **15748895**

Sample **6** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW30**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **13 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	<0.5	mg/l	29/12/2016	N Cov	WAS043
Nitrate as NO3	10.1	mg/l	15/12/2016	N Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	29/12/2016	Y Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	29/12/2016	Y Cov	WAS060
Arsenic, Ultra Low Total as As	<0.0010	mg/l	29/12/2016	Y Cov	WAS060
Fluoride	0.064	mg/l	19/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	28/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	28/12/2016	Y S	SUBCON
Aluminium, Total as Al	1.4	mg/l	23/12/2016	Y Cov	WAS049
Barium, Total as Ba	0.104	mg/l	23/12/2016	Y Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	23/12/2016	Y Cov	WAS049
Boron, Total as B	<0.23	mg/l	23/12/2016	Y Cov	WAS049
Cadmium , Total as Cd	0.0008	mg/l	23/12/2016	Y Cov	WAS049
Calcium , Total as Ca	175	mg/l	23/12/2016	Y Cov	WAS049
Chromium , Total as Cr	0.005	mg/l	23/12/2016	Y Cov	WAS049
Copper, Ultra-low Total as Cu	8.7	ug/l	29/12/2016	Y Cov	WAS060
Iron , Total as Fe	4.20	mg/l	23/12/2016	Y Cov	WAS049
Ferrous Iron	<0.5	mg/l	29/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	29/12/2016	N Cov	WAS043
Lead , Total as Pb	0.026	mg/l	23/12/2016	Y Cov	WAS049
Magnesium, Total as Mg	10.1	mg/l	23/12/2016	Y Cov	WAS049
Manganese , Total as Mn	0.728	mg/l	23/12/2016	Y Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	21/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.015	mg/l	23/12/2016	Y Cov	WAS049
Potassium , Total as K	1.17	mg/l	23/12/2016	Y Cov	WAS049
Sodium , Total as Na	5.42	mg/l	23/12/2016	Y Cov	WAS049
Vanadium , Total as V	0.007	mg/l	23/12/2016	Y Cov	WAS049
Zinc, Total as Zn	0.06	mg/l	23/12/2016	Y Cov	WAS049
pH	7.2	pH units	14/12/2016	Y Cov	WAS039
Conductivity- Electrical 20C	634	uS/cm	29/12/2016	Y Cov	WAS039
Alkalinity as CaCO3	446	mg/l	29/12/2016	Y Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	14/12/2016	Y Cov	WAS067

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Report Number: **COV/1345144/2016**

Issue **3**

Laboratory Number: **15748895**

Sample **6** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW30**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **13 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	12.1	mg/l	15/12/2016	N Cov	WAS036
Nitrite as N	<0.08	mg/l	15/12/2016	N Cov	WAS036
Phosphates , Total as P	0.25	mg/l	23/12/2016	Y Cov	WAS049
Sulphate as SO4	8.0	mg/l	15/12/2016	N Cov	WAS036
BOD + ATU (5 day)	<1	mg/l	20/12/2016	Y Cov	WAS001
COD (Total)	62.0	mg/l	17/12/2016	Y Cov	WAS040
TOC (Filtered)	0.9	mg/l	16/12/2016	Y Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	19/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	19/12/2016	N Cov	WAS018
Sulphide as S	0.064	mg/l	29/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	14/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	09/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	09/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	09/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	19/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	09/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	09/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	09/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	09/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	09/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	09/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	09/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	09/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	09/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	09/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	09/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	09/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	09/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	09/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	09/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	09/01/2017	Y Cov	GEO47

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Report Number: **COV/1345144/2016**

Issue **3**

Laboratory Number: **15748895**

Sample **6** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW30**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **13 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	09/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	09/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	09/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	09/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	09/01/2017	Y Cov	GEO47
Azinphos-ethyl	Analyst Com	ug/l	18/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	09/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	09/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	16/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	16/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	28/12/2016	Y Cov	GEO20

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Issue **3**

Laboratory Number: **15748895**

Sample **6** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW30**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **13 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	28/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	28/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Mecoprop	<0.04	ug/l	28/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	15/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	15/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	15/12/2016	N Cov	338
Naphthol	<0.10	ug/l	15/12/2016	N Cov	338
Phenol	<0.10	ug/l	15/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	15/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	15/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	21/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	20/12/2016	N Cov	GEO46

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Issue **3**

Laboratory Number: **15748895**

Sample **6** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW30**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **13 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	20/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	<10	ug/l	21/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	<10	ug/l	21/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	<10	ug/l	21/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Anthracene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Chrysene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Fluoranthene	0.022	ug/l	16/01/2017	Y Cov	GEO19
Fluorene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Naphthalene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Phenanthrene	0.020	ug/l	16/01/2017	Y Cov	GEO19
Pyrene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
PAH, Total	0.042	ug/l	16/01/2017	N Cov	GEO19
SVOC	Y	ug/l	18/12/2016	N Cov	GEO40
Phenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
3&4-Methylphenol	<1.0	ug/l	18/12/2016	N Cov	GEO40
Dibenzofuran	<1.0	ug/l	18/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40

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Certificate of Analysis



Report Number: **COV/1345144/2016**

Issue **3**

Laboratory Number: **15748895**

Sample **6** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW30**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **13 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachloroethane	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Nitrobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Isophorone	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Nitrophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Naphthalene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Dimethylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthylene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Diethylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
4-Nitrophenol	<5.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Fluorene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Diphenylamine	<1.0	ug/l	18/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Pentachlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Phenanthrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40

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Report Number: **COV/1345144/2016**

Issue **3**

Laboratory Number: **15748895**

Sample **6** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW30**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **13 December 2016**

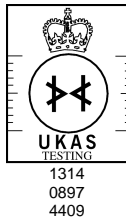
Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Chrysene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<5.0	ug/l	18/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Fluorophenol	93.3	%Recovery	18/12/2016	N Cov	GEO40
Phenol-d6	75.8	%Recovery	18/12/2016	N Cov	GEO40
Nitrobenzene-d5	87.7	%Recovery	18/12/2016	N Cov	GEO40
2-Fluorobiphenyl	90.9	%Recovery	18/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	77.4	%Recovery	18/12/2016	N Cov	GEO40
Terphenyl-d14	90.9	%Recovery	18/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	22/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	28/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	28/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	28/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	28/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	28/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	28/12/2016	Y S	SUBCON

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Report Number: **COV/1345144/2016**

Issue **3**

Laboratory Number: **15748895**

Sample **6** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW30**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **13 December 2016**

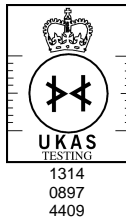
Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	28/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	28/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	28/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	28/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	28/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	28/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Benzene	<0.20	ug/l	28/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	28/12/2016	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	28/12/2016	Y S	SUBCON
Bromoform	0.25	ug/l	28/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	28/12/2016	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
Chloroform	<0.10	ug/l	28/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	28/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	28/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	28/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	28/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	28/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	28/12/2016	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	28/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	28/12/2016	Y S	SUBCON
Naphthalene	<1.0	ug/l	28/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON

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Report Number: **COV/1345144/2016**
 Laboratory Number: **15748895**

Issue **3**
 Sample **6** of **6**


Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW30**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **13 December 2016**
 Sample Received: **13 December 2016**
 Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	28/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	28/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	28/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	28/12/2016	Y S	SUBCON
Toluene	<0.50	ug/l	28/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	28/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	28/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	28/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	28/12/2016	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	28/12/2016	Y S	SUBCON

Analyst Comments for 15748895:

This sample has been analysed for Pesticides method GEO47, Sodium Total as Na, Boron, Total as B outside recommended stability times. It is therefore possible that the results provided may be compromised. GEO40 SVOC Waters: See attached SVOC-TIC Report. {/**}The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis.{**}
 AQC failure for Azinphos-Ethyl is unable to indicate.

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.
 Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).
 For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).
 I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: 	Name: G. Arnold	Date: 18 January 2017
	Title: Inorganic Team Leader	

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Mr Downes
SKM Ireland c/o Jacobs
Engineering Ireland
Jacobs
Merrion House
Merrion Road
Dublin 4 South Dublin

23 January 2017

Test Report: COV/1345620/2016

Dear Mr Downes

Analysis of your sample(s) submitted on 14 December 2016 is now complete and we have pleasure in enclosing the appropriate test report(s).

An invoice for the analysis carried out will be sent under separate cover.

Should you have any queries regarding this report(s) or any part of our service, please contact Customer Services on +44 (0)24 7642 1213 who will be happy to discuss your requirements.

If you would like to arrange any further analysis, please contact Customer Services. To arrange container delivery or sample collection, please call the Couriers Department directly on 024 7685 6562.

Thank you for using ALS Environmental Ltd and we look forward to receiving your next samples.

Yours Sincerely,

Signed: 

Name: A. Horobin

Title: Organic Operations Manager



Report Summary



**Mr Ultan Downes
SKM Ireland c/o Jacobs
Engineering Ireland
Jacobs
Merrion House
Merrion Road
Dublin 4
South Dublin**

Date of Issue: **23 January 2017**

Report Number: **COV/1345620/2016**

Issue **3**

Job Description: Kerdiffstown Landfill

Job Location: 32EW5604 KLRP

Number of Samples
included in this report **9**

Job Received: **14 December 2016**

Number of Test Results
included in this report **2475**

Analysis Commenced: **15 December 2016**

Signed: *A I Horobin*

Name: **A. Horobin**

Date: **23 January 2017**

Title: **Organic Operations Manager**

ALS Environmental Ltd was not responsible for sampling unless otherwise stated. Sampling is not covered by our UKAS accreditation.

Information on the methods of analysis and performance characteristics are available on request.

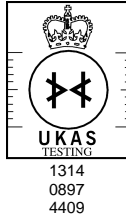
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. The results relate only to the items tested.

Tests marked 'Not UKAS Accredited' in this Report/Certificate are not included in the UKAS Accreditation Schedule for our laboratory.

This communication has been sent to you by ALS Environmental Ltd. Registered in England and Wales. Registration No. 02148934. Registered Office: ALS Environmental Limited, Torrington Avenue, Coventry, CV4 9GU.

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Certificate of Analysis



Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752008**

Sample **1** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW07**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	13.4	mg/l	29/12/2016	N Cov	WAS043
Nitrate as NO3	<3.1	mg/l	16/12/2016	N Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	30/12/2016	Y Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	30/12/2016	Y Cov	WAS060
Arsenic, Ultra Low Total as As	0.016	mg/l	30/12/2016	Y Cov	WAS060
Fluoride	0.063	mg/l	22/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Aluminium, Total as Al	0.9	mg/l	29/12/2016	Y Cov	WAS049
Barium, Total as Ba	0.290	mg/l	29/12/2016	Y Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	29/12/2016	Y Cov	WAS049
Boron, Total as B	0.32	mg/l	29/12/2016	Y Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	29/12/2016	Y Cov	WAS049
Calcium , Total as Ca	187	mg/l	29/12/2016	Y Cov	WAS049
Chromium , Total as Cr	0.003	mg/l	29/12/2016	Y Cov	WAS049
Copper, Ultra-low Total as Cu	8.6	ug/l	30/12/2016	Y Cov	WAS060
Iron , Total as Fe	18.2	mg/l	29/12/2016	Y Cov	WAS049
Ferrous Iron	12.3	mg/l	29/12/2016	N Cov	WAS043
Ferric Iron	1.1	mg/l	29/12/2016	N Cov	WAS043
Lead , Total as Pb	0.010	mg/l	29/12/2016	Y Cov	WAS049
Magnesium, Total as Mg	18.8	mg/l	29/12/2016	Y Cov	WAS049
Manganese , Total as Mn	1.32	mg/l	29/12/2016	Y Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	21/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.008	mg/l	29/12/2016	Y Cov	WAS049
Potassium , Total as K	11.3	mg/l	29/12/2016	Y Cov	WAS049
Sodium , Total as Na	29.2	mg/l	29/12/2016	Y Cov	WAS049
Vanadium , Total as V	0.004	mg/l	29/12/2016	Y Cov	WAS049
Zinc, Total as Zn	0.04	mg/l	29/12/2016	Y Cov	WAS049
pH	7.2	pH units	15/12/2016	Y Cov	WAS039
Conductivity- Electrical 20C	1110	uS/cm	15/12/2016	Y Cov	WAS039
Alkalinity as CaCO3	470	mg/l	15/12/2016	Y Cov	WAS025
Ammoniacal Nitrogen as N (LL)	4.89	mg/l	17/12/2016	Y Cov	WAS067

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Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752008**

Sample **1** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW07**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	31.1	mg/l	16/12/2016	N Cov	WAS036
Nitrite as N	<0.08	mg/l	16/12/2016	N Cov	WAS036
Phosphates , Total as P	2.1	mg/l	29/12/2016	Y Cov	WAS049
Sulphate as SO4	188	mg/l	16/12/2016	N Cov	WAS036
BOD + ATU (5 day)	<1	mg/l	20/12/2016	Y Cov	WAS001
COD (Total)	37.0	mg/l	19/12/2016	Y Cov	WAS040
TOC (Filtered)	5.6	mg/l	16/12/2016	Y Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	19/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	19/12/2016	N Cov	WAS018
Sulphide as S	<0.020	mg/l	30/12/2016	N Cov	WAS033
Formaldehyde	0.063	mg/l	21/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	09/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	09/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	09/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	19/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	09/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	09/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	09/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	09/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	09/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	09/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	09/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	09/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	09/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	09/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	09/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	09/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	09/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	09/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	09/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	09/01/2017	Y Cov	GEO47

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Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752008**

Sample **1** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW07**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	09/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	09/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	09/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	09/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	09/01/2017	Y Cov	GEO47
Azinphos-ethyl	Analyst Com	ug/l	17/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	09/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	09/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	16/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	16/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	28/12/2016	Y Cov	GEO20

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Issue **3**

Laboratory Number: **15752008**

Sample **1** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW07**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

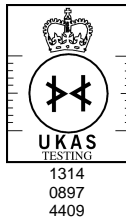
Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	28/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	28/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Mecoprop	0.16	ug/l	28/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	16/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Naphthol	<0.10	ug/l	16/12/2016	N Cov	338
Phenol	<0.10	ug/l	16/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	16/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	21/12/2016	N Cov	GEO46

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Laboratory Number: **15752008**

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Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW07**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

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Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	<10	ug/l	22/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	<10	ug/l	22/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	<10	ug/l	22/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Acenaphthylene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Anthracene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Benzo (a) anthracene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Benzo (a) pyrene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Benzo (b) fluoranthene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Benzo (k) fluoranthene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Chrysene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Fluoranthene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Fluorene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Naphthalene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Phenanthrene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Pyrene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
PAH, Total	<0.02	ug/l	16/01/2017	N Cov	GEO19
SVOC	Y	ug/l	18/12/2016	N Cov	GEO40
Phenol	2.3	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chlorophenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylphenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
3&4-Methylphenol	<2.0	ug/l	18/12/2016	N Cov	GEO40
Dibenzofuran	<2.0	ug/l	18/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<2.0	ug/l	18/12/2016	Y Cov	GEO40

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Sample Point Description:

Sample Description: **EMW07**

Sample Matrix: **Ground Water**

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Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<2.0	ug/l	18/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachloroethane	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Nitrobenzene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Isophorone	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2-Nitrophenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Naphthalene	<4.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Dimethylphthalate	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthylene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Diethylphthalate	<2.0	ug/l	18/12/2016	Y Cov	GEO40
4-Nitrophenol	<10.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Fluorene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Diphenylamine	<2.0	ug/l	18/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobenzene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Pentachlorophenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Phenanthrene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Anthracene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<2.0	ug/l	18/12/2016	Y Cov	GEO40

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Sample **1** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW07**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Pyrene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Chrysene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<10.0	ug/l	18/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2-Fluorophenol	88.5	%Recovery	18/12/2016	N Cov	GEO40
Phenol-d6	72.8	%Recovery	18/12/2016	N Cov	GEO40
Nitrobenzene-d5	85.2	%Recovery	18/12/2016	N Cov	GEO40
2-Fluorobiphenyl	85.4	%Recovery	18/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	79.9	%Recovery	18/12/2016	N Cov	GEO40
Terphenyl-d14	94.4	%Recovery	18/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	22/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	28/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	27/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	27/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON

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Laboratory Number: **15752008**

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Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW07**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

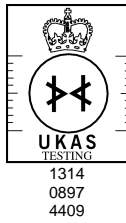
Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	27/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	27/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	27/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Benzene	<0.20	ug/l	27/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	27/12/2016	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
Bromoform	<0.20	ug/l	27/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	27/12/2016	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
Chloroform	<0.10	ug/l	27/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	27/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	27/12/2016	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	27/12/2016	Y S	SUBCON
Naphthalene	<1.0	ug/l	27/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON

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Sample Point Description:

Sample Description: **EMW07**

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Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	27/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	27/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	27/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	27/12/2016	Y S	SUBCON
Toluene	<0.50	ug/l	27/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	27/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	27/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	27/12/2016	Y S	SUBCON

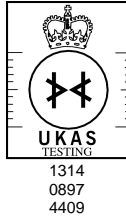
Analyst Comments for 15752008:

This sample has been analysed for Pesticides method GEO47, Aluminium, Total as Al, Magnesium, Total as Mg, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba, Copper, ultra-low total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised. GEO40 SVOC Waters: Reporting limits raised due to the nature of the sample matrix. See attached SVOC -TIC Report.
{/*}The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferrous ratio between sampling and analysis.{*/}
Reporting limits raised for PAH due to nature of sample matrix.
AQC failure for Azinphos-Ethyl, unable to indicate.

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.
Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).
For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).
I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: *A I Horobin* Name: **A. Horobin** Date: **23 January 2017**
Title: **Organic Operations Manager**

Certificate of Analysis



Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752009**

Sample **2** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW08**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	3.1	mg/l	29/12/2016	N Cov	WAS043
Nitrate as NO3	<3.1	mg/l	16/12/2016	N Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	30/12/2016	Y Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	30/12/2016	Y Cov	WAS060
Arsenic, Ultra Low Total as As	0.0025	mg/l	30/12/2016	Y Cov	WAS060
Fluoride	0.085	mg/l	21/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Aluminium, Total as Al	0.4	mg/l	29/12/2016	Y Cov	WAS049
Barium, Total as Ba	0.108	mg/l	29/12/2016	Y Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	29/12/2016	Y Cov	WAS049
Boron, Total as B	<0.23	mg/l	29/12/2016	Y Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	29/12/2016	Y Cov	WAS049
Calcium , Total as Ca	122	mg/l	29/12/2016	Y Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	29/12/2016	Y Cov	WAS049
Copper, Ultra-low Total as Cu	4.8	ug/l	30/12/2016	Y Cov	WAS060
Iron , Total as Fe	4.31	mg/l	29/12/2016	Y Cov	WAS049
Ferrous Iron	3.0	mg/l	29/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	29/12/2016	N Cov	WAS043
Lead , Total as Pb	<0.006	mg/l	29/12/2016	Y Cov	WAS049
Magnesium, Total as Mg	7.0	mg/l	29/12/2016	Y Cov	WAS049
Manganese , Total as Mn	0.756	mg/l	29/12/2016	Y Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	21/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.005	mg/l	29/12/2016	Y Cov	WAS049
Potassium , Total as K	0.53	mg/l	29/12/2016	Y Cov	WAS049
Sodium , Total as Na	4.09	mg/l	29/12/2016	Y Cov	WAS049
Vanadium , Total as V	<0.004	mg/l	29/12/2016	Y Cov	WAS049
Zinc, Total as Zn	<0.018	mg/l	29/12/2016	Y Cov	WAS049
pH	7.3	pH units	15/12/2016	Y Cov	WAS039
Conductivity- Electrical 20C	580	uS/cm	15/12/2016	Y Cov	WAS039
Alkalinity as CaCO3	333	mg/l	15/12/2016	Y Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	17/12/2016	Y Cov	WAS067

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Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752009**

Sample **2** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW08**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	8.6	mg/l	16/12/2016	N Cov	WAS036
Nitrite as N	<0.08	mg/l	16/12/2016	N Cov	WAS036
Phosphates , Total as P	0.76	mg/l	29/12/2016	Y Cov	WAS049
Sulphate as SO4	8.6	mg/l	16/12/2016	N Cov	WAS036
BOD + ATU (5 day)	<1	mg/l	20/12/2016	Y Cov	WAS001
COD (Total)	33.0	mg/l	17/12/2016	Y Cov	WAS040
TOC (Filtered)	1.3	mg/l	16/12/2016	Y Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	19/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	19/12/2016	N Cov	WAS018
Sulphide as S	<0.020	mg/l	30/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	21/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	10/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	10/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	10/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	19/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	10/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	10/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	10/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	10/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	10/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	10/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	10/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	10/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	10/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	10/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	10/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	10/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	10/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	10/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	10/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	10/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	10/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	10/01/2017	Y Cov	GEO47

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Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752009**

Sample **2** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW08**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	10/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	10/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	10/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	10/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	10/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	10/01/2017	Y Cov	GEO47
Azinphos-ethyl	Analyst Com	ug/l	17/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	10/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	10/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	10/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	10/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	16/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	16/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	10/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	11/01/2017	Y Cov	GEO20
Bentazone	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	28/12/2016	Y Cov	GEO20

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Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752009**

Sample **2** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW08**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	11/01/2017	Y Cov	GEO20
Ioxynil	<0.05	ug/l	28/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	28/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	11/01/2017	Y Cov	GEO20
Mecoprop	<0.04	ug/l	28/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	16/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Naphthol	<0.10	ug/l	16/12/2016	N Cov	338
Phenol	<0.10	ug/l	16/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	16/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	21/12/2016	N Cov	GEO46

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Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752009**

Sample **2** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW08**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

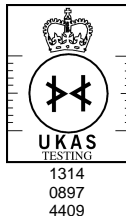
Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	<10	ug/l	22/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	<10	ug/l	22/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	<10	ug/l	22/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Anthracene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Chrysene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Fluoranthene	0.148	ug/l	16/01/2017	Y Cov	GEO19
Fluorene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Naphthalene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Phenanthrene	0.128	ug/l	16/01/2017	Y Cov	GEO19
Pyrene	0.045	ug/l	16/01/2017	Y Cov	GEO19
PAH, Total	0.320	ug/l	16/01/2017	N Cov	GEO19
SVOC	Y	ug/l	18/12/2016	N Cov	GEO40
Phenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
3&4-Methylphenol	<1.0	ug/l	18/12/2016	N Cov	GEO40
Dibenzofuran	<1.0	ug/l	18/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40

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Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752009**

Sample **2** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW08**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachloroethane	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Nitrobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Isophorone	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Nitrophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Naphthalene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Dimethylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthylene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Diethylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
4-Nitrophenol	<5.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Fluorene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Diphenylamine	<1.0	ug/l	18/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Pentachlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Phenanthrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40

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Issue **3**

Laboratory Number: **15752009**

Sample **2** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW08**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Chrysene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<5.0	ug/l	18/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Fluorophenol	90.2	%Recovery	18/12/2016	N Cov	GEO40
Phenol-d6	71.0	%Recovery	18/12/2016	N Cov	GEO40
Nitrobenzene-d5	84.9	%Recovery	18/12/2016	N Cov	GEO40
2-Fluorobiphenyl	85.6	%Recovery	18/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	78.0	%Recovery	18/12/2016	N Cov	GEO40
Terphenyl-d14	89.1	%Recovery	18/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	22/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	11/01/2017	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	27/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	27/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON

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Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752009**

Sample **2** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW08**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	27/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	27/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	27/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Benzene	<0.20	ug/l	27/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	27/12/2016	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
Bromoform	<0.20	ug/l	27/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	27/12/2016	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
Chloroform	<0.10	ug/l	27/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	27/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	27/12/2016	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	27/12/2016	Y S	SUBCON
Naphthalene	<1.0	ug/l	27/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON

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Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752009**

Sample **2** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW08**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	27/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	27/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	27/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	27/12/2016	Y S	SUBCON
Toluene	0.59	ug/l	27/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	27/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	27/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	27/12/2016	Y S	SUBCON

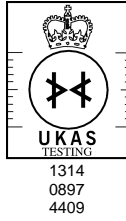
Analyst Comments for 15752009:

This sample has been analysed for Pesticides method GEO47, Aluminium, Total as Al, Magnesium, Total as Mg, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba, Copper, ultra-low total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised. See attached SVOC-TIC Report.
The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis.
AQC failure for Azinphos-Ethyl, unable to indicate.

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.
Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).
For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).
I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: <i>A I Horobin</i>	Name: A. Horobin	Date: 23 January 2017
	Title: Organic Operations Manager	

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Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752010**

Sample **3** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW27**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	1.8	mg/l	29/12/2016	N Cov	WAS043
Nitrate as NO3	<3.1	mg/l	16/12/2016	N Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	30/12/2016	Y Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	30/12/2016	Y Cov	WAS060
Arsenic, Ultra Low Total as As	0.056	mg/l	30/12/2016	Y Cov	WAS060
Fluoride	0.142	mg/l	21/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Aluminium, Total as Al	29.7	mg/l	03/01/2017	Y Cov	WAS049
Barium, Total as Ba	1.21	mg/l	03/01/2017	Y Cov	WAS049
Beryllium, Total as Be	<0.2100	mg/l	03/01/2017	Y Cov	WAS049
Boron, Total as B	<23.0	mg/l	03/01/2017	Y Cov	WAS049
Cadmium , Total as Cd	<0.0600	mg/l	03/01/2017	Y Cov	WAS049
Calcium , Total as Ca	359	mg/l	03/01/2017	Y Cov	WAS049
Chromium , Total as Cr	<0.200	mg/l	03/01/2017	Y Cov	WAS049
Copper, Ultra-low Total as Cu	187	ug/l	03/01/2017	Y Cov	WAS060
Iron , Total as Fe	56.4	mg/l	03/01/2017	Y Cov	WAS049
Ferrous Iron	1.6	mg/l	29/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	29/12/2016	N Cov	WAS043
Lead , Total as Pb	<0.600	mg/l	03/01/2017	Y Cov	WAS049
Magnesium, Total as Mg	<60.0	mg/l	03/01/2017	Y Cov	WAS049
Manganese , Total as Mn	13.7	mg/l	03/01/2017	Y Cov	WAS049
Mercury, Total as Hg	0.00123	mg/l	21/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.543	mg/l	03/01/2017	Y Cov	WAS049
Potassium , Total as K	<18.0	mg/l	03/01/2017	Y Cov	WAS049
Sodium , Total as Na	<30.0	mg/l	03/01/2017	Y Cov	WAS049
Vanadium , Total as V	<0.400	mg/l	03/01/2017	Y Cov	WAS049
Zinc, Total as Zn	<1.80	mg/l	03/01/2017	Y Cov	WAS049
pH	7.0	pH units	15/12/2016	Y Cov	WAS039
Conductivity- Electrical 20C	714	uS/cm	15/12/2016	Y Cov	WAS039
Alkalinity as CaCO3	533	mg/l	15/12/2016	Y Cov	WAS025
Ammoniacal Nitrogen as N (LL)	0.38	mg/l	17/12/2016	Y Cov	WAS067

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Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752010**

Sample **3** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW27**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	15.1	mg/l	16/12/2016	N Cov	WAS036
Nitrite as N	<0.08	mg/l	16/12/2016	N Cov	WAS036
Phosphates , Total as P	<12	mg/l	03/01/2017	Y Cov	WAS049
Sulphate as SO4	26.0	mg/l	16/12/2016	N Cov	WAS036
BOD + ATU (5 day)	<1	mg/l	20/12/2016	Y Cov	WAS001
COD (Total)	480	mg/l	19/12/2016	Y Cov	WAS040
TOC (Filtered)	6.0	mg/l	16/12/2016	Y Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	19/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	19/12/2016	N Cov	WAS018
Sulphide as S	4.34	mg/l	30/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	21/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	09/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	09/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	09/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	19/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	09/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	09/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	09/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	09/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	09/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	09/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	09/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	09/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	09/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	09/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	09/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	09/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	09/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	09/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	09/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	09/01/2017	Y Cov	GEO47

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Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752010**

Sample **3** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW27**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

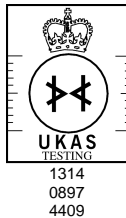
Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	09/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	09/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	09/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	09/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	09/01/2017	Y Cov	GEO47
Azinphos-ethyl	Analyst Com	ug/l	17/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	09/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	09/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	16/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	16/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.10	ug/l	05/01/2017	Y Cov	GEO20
2,4 - D	<0.10	ug/l	05/01/2017	Y Cov	GEO20
2,4 - DB	<0.10	ug/l	05/01/2017	Y Cov	GEO20
2,4,5 - T	<0.10	ug/l	05/01/2017	Y Cov	GEO20
Benazolin	<0.10	ug/l	05/01/2017	Y Cov	GEO20
Bentazone	<0.10	ug/l	05/01/2017	Y Cov	GEO20
Chlopyralid	<0.10	ug/l	05/01/2017	Y Cov	GEO20
Bromoxynil	<0.10	ug/l	05/01/2017	Y Cov	GEO20

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Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752010**

Sample **3** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW27**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.10	ug/l	05/01/2017	Y Cov	GEO20
Dichlorprop	<0.10	ug/l	05/01/2017	Y Cov	GEO20
Fenoprop	<0.10	ug/l	05/01/2017	Y Cov	GEO20
Ioxynil	<0.10	ug/l	05/01/2017	Y Cov	GEO20
MCPA	<0.10	ug/l	05/01/2017	Y Cov	GEO20
MCPB	<0.10	ug/l	05/01/2017	Y Cov	GEO20
Triclopyr	<0.10	ug/l	05/01/2017	Y Cov	GEO20
Mecoprop	<0.08	ug/l	05/01/2017	Y Cov	GEO20
Catechol	<0.10	ug/l	16/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Naphthol	<0.10	ug/l	16/12/2016	N Cov	338
Phenol	<0.10	ug/l	16/12/2016	N Cov	338
Trimethylphenol, Total	3.2	ug/l	16/12/2016	N Cov	338
Phenols, Total	3.2	ug/l	16/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	21/12/2016	N Cov	GEO46

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Report Number: **COV/1345620/2016**
 Laboratory Number: **15752010**

Issue **3**
 Sample **3** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW27**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **13 December 2016**
 Sample Received: **14 December 2016**
 Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	<10	ug/l	22/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	<10	ug/l	22/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	<10	ug/l	22/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Anthracene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Chrysene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Fluoranthene	0.062	ug/l	16/01/2017	Y Cov	GEO19
Fluorene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Naphthalene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Phenanthrene	0.058	ug/l	16/01/2017	Y Cov	GEO19
Pyrene	0.023	ug/l	16/01/2017	Y Cov	GEO19
PAH, Total	0.143	ug/l	16/01/2017	N Cov	GEO19
SVOC	Y	ug/l	18/12/2016	N Cov	GEO40
Phenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chlorophenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylphenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
3&4-Methylphenol	<2.0	ug/l	18/12/2016	N Cov	GEO40
Dibenzofuran	<2.0	ug/l	18/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<2.0	ug/l	18/12/2016	Y Cov	GEO40

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Report Number: **COV/1345620/2016**
 Laboratory Number: **15752010**

Issue **3**
 Sample **3** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW27**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **13 December 2016**
 Sample Received: **14 December 2016**
 Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<2.0	ug/l	18/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachloroethane	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Nitrobenzene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Isophorone	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2-Nitrophenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Naphthalene	<4.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Dimethylphthalate	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthylene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Diethylphthalate	<2.0	ug/l	18/12/2016	Y Cov	GEO40
4-Nitrophenol	<10.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Fluorene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Diphenylamine	<2.0	ug/l	18/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobenzene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Pentachlorophenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Phenanthrene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Anthracene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<2.0	ug/l	18/12/2016	Y Cov	GEO40

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Issue **3**
 Sample **3** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW27**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **13 December 2016**
 Sample Received: **14 December 2016**
 Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Pyrene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Chrysene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<10.0	ug/l	18/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2-Fluorophenol	90.3	%Recovery	18/12/2016	N Cov	GEO40
Phenol-d6	74.7	%Recovery	18/12/2016	N Cov	GEO40
Nitrobenzene-d5	81.5	%Recovery	18/12/2016	N Cov	GEO40
2-Fluorobiphenyl	81.7	%Recovery	18/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	73.5	%Recovery	18/12/2016	N Cov	GEO40
Terphenyl-d14	96.9	%Recovery	18/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	22/12/2016	N Cov	WAS036
Fluoroxypyr	<0.10	ug/l	05/01/2017	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	27/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	27/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON

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Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752010**

Sample **3** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW27**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

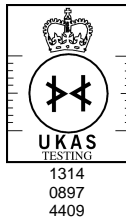
Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	27/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	27/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	27/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Benzene	<0.20	ug/l	27/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	27/12/2016	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
Bromoform	<0.20	ug/l	27/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	27/12/2016	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
Chloroform	<0.10	ug/l	27/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	27/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	27/12/2016	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	27/12/2016	Y S	SUBCON
Naphthalene	<1.0	ug/l	27/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON

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Report Number: **COV/1345620/2016**
Laboratory Number: **15752010**

Issue **3**
Sample **3** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
Sample Point Description:
Sample Description: **EMW27**
Sample Matrix: **Ground Water**
Sample Date/Time: **13 December 2016**
Sample Received: **14 December 2016**
Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	27/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	27/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	27/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	27/12/2016	Y S	SUBCON
Toluene	<0.50	ug/l	27/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	27/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	27/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	27/12/2016	Y S	SUBCON

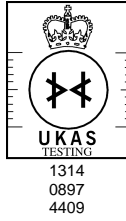
Analyst Comments for 15752010:

This sample has been analysed for Pesticides method GEO47, Iron Total as Fe, Manganese Total as Mn, Aluminium, Total as Al, Cadmium Total as Cd, Chromium Total as Cr, Lead Total as Pb, Nickel, Total as Ni, Zinc, Total as Zn, Calcium Total as Ca, Magnesium, Total as Mg, Sodium Total as Na, Potassium Total as K, Phosphates Total as P, Boron, Total as B, Vanadium Total as V, Barium, Total as Ba, Beryllium, Total as Be, Copper, ultra-low total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised. See attached SVOC-TIC Report.
The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis. The reporting limit has been raised for metals due to interference with the internal standard
Acid Herbicides & SVOC reporting limits raised due to nature of sample matrix.
AQC failure for Azinphos-Ethyl, unable to indicate.

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.
Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).
For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).
I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: *A I Horobin*
Name: **A. Horobin** Date: **23 January 2017**
Title: **Organic Operations Manager**

Certificate of Analysis



Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752011**

Sample **4** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW28**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	8.4	mg/l	29/12/2016	N Cov	WAS043
Nitrate as NO3	<3.1	mg/l	16/12/2016	N Cov	WAS036
Antimony Ultra Low Total as Sb	0.0015	mg/l	30/12/2016	Y Cov	WAS060
Selenium Ultra Low Total as Se	0.0010	mg/l	30/12/2016	Y Cov	WAS060
Arsenic, Ultra Low Total as As	0.027	mg/l	30/12/2016	Y Cov	WAS060
Fluoride	0.096	mg/l	22/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Aluminium, Total as Al	5.0	mg/l	03/01/2017	Y Cov	WAS049
Barium, Total as Ba	0.328	mg/l	03/01/2017	Y Cov	WAS049
Beryllium, Total as Be	<0.0210	mg/l	03/01/2017	Y Cov	WAS049
Boron, Total as B	<2.30	mg/l	03/01/2017	Y Cov	WAS049
Cadmium , Total as Cd	<0.0060	mg/l	03/01/2017	Y Cov	WAS049
Calcium , Total as Ca	337	mg/l	03/01/2017	Y Cov	WAS049
Chromium , Total as Cr	0.025	mg/l	03/01/2017	Y Cov	WAS049
Copper, Ultra-low Total as Cu	66	ug/l	30/12/2016	Y Cov	WAS060
Iron , Total as Fe	33.4	mg/l	03/01/2017	Y Cov	WAS049
Ferrous Iron	8.6	mg/l	29/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	29/12/2016	N Cov	WAS043
Lead , Total as Pb	0.110	mg/l	03/01/2017	Y Cov	WAS049
Magnesium, Total as Mg	8.2	mg/l	03/01/2017	Y Cov	WAS049
Manganese , Total as Mn	2.59	mg/l	03/01/2017	Y Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	21/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.117	mg/l	03/01/2017	Y Cov	WAS049
Potassium , Total as K	<1.80	mg/l	03/01/2017	Y Cov	WAS049
Sodium , Total as Na	6.48	mg/l	03/01/2017	Y Cov	WAS049
Vanadium , Total as V	<0.040	mg/l	03/01/2017	Y Cov	WAS049
Zinc, Total as Zn	0.339	mg/l	03/01/2017	Y Cov	WAS049
pH	6.9	pH units	15/12/2016	Y Cov	WAS039
Conductivity- Electrical 20C	787	uS/cm	15/12/2016	Y Cov	WAS039
Alkalinity as CaCO3	571	mg/l	15/12/2016	Y Cov	WAS025
Ammoniacal Nitrogen as N (LL)	0.23	mg/l	19/12/2016	Y Cov	WAS067

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Report Number: **COV/1345620/2016**
 Laboratory Number: **15752011**

Issue **3**
 Sample **4** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW28**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **13 December 2016**
 Sample Received: **14 December 2016**
 Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	9.9	mg/l	16/12/2016	N Cov	WAS036
Nitrite as N	<0.08	mg/l	16/12/2016	N Cov	WAS036
Phosphates , Total as P	<1.2	mg/l	03/01/2017	Y Cov	WAS049
Sulphate as SO4	18.1	mg/l	16/12/2016	N Cov	WAS036
BOD + ATU (5 day)	2	mg/l	20/12/2016	Y Cov	WAS001
COD (Total)	163	mg/l	19/12/2016	Y Cov	WAS040
TOC (Filtered)	13.4	mg/l	16/12/2016	Y Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	19/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	19/12/2016	N Cov	WAS018
Sulphide as S	0.097	mg/l	30/12/2016	N Cov	WAS033
Formaldehyde	0.035	mg/l	21/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	09/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	09/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	09/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	19/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	09/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	09/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	09/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	09/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	09/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	09/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	09/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	09/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	09/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	09/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	09/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	09/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	09/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	09/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	09/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	09/01/2017	Y Cov	GEO47

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Report Number: **COV/1345620/2016**
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Issue **3**
 Sample **4** of **9**

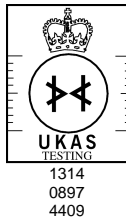
Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW28**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **13 December 2016**
 Sample Received: **14 December 2016**
 Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	09/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	09/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	09/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	09/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	09/01/2017	Y Cov	GEO47
Azinphos-ethyl	Analyst Com	ug/l	17/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	09/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	09/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	16/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	16/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.50	ug/l	30/12/2016	Y Cov	GEO20
2,4 - D	<0.50	ug/l	30/12/2016	Y Cov	GEO20
2,4 - DB	<0.50	ug/l	30/12/2016	Y Cov	GEO20
2,4,5 - T	<0.50	ug/l	30/12/2016	Y Cov	GEO20
Benazolin	<0.50	ug/l	30/12/2016	Y Cov	GEO20
Bentazone	<0.50	ug/l	30/12/2016	Y Cov	GEO20
Chlopyralid	<0.50	ug/l	30/12/2016	Y Cov	GEO20
Bromoxynil	<0.50	ug/l	30/12/2016	Y Cov	GEO20

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Report Number: **COV/1345620/2016**
 Laboratory Number: **15752011**

Issue **3**
 Sample **4** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW28**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **13 December 2016**
 Sample Received: **14 December 2016**
 Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.50	ug/l	30/12/2016	Y Cov	GEO20
Dichlorprop	<0.50	ug/l	30/12/2016	Y Cov	GEO20
Fenoprop	<0.50	ug/l	30/12/2016	Y Cov	GEO20
Ioxynil	<0.50	ug/l	30/12/2016	Y Cov	GEO20
MCPA	<0.50	ug/l	30/12/2016	Y Cov	GEO20
MCPB	<0.50	ug/l	30/12/2016	Y Cov	GEO20
Triclopyr	<0.50	ug/l	30/12/2016	Y Cov	GEO20
Mecoprop	<0.40	ug/l	30/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	16/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Naphthol	<0.10	ug/l	16/12/2016	N Cov	338
Phenol	<0.10	ug/l	16/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	16/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	17	ug/l	21/12/2016	N Cov	GEO46

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Issue **3**
 Sample **4** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW28**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **13 December 2016**
 Sample Received: **14 December 2016**
 Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	17	ug/l	21/12/2016	N Cov	GEO46
EPH >C10 - C44	17	ug/l	21/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	<10	ug/l	22/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	17	ug/l	22/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	17	ug/l	22/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Acenaphthylene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Anthracene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Benzo (a) anthracene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Benzo (a) pyrene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Benzo (b) fluoranthene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Benzo (k) fluoranthene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Chrysene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Fluoranthene	0.065	ug/l	16/01/2017	Y Cov	GEO19
Fluorene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Naphthalene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Phenanthrene	0.072	ug/l	16/01/2017	Y Cov	GEO19
Pyrene	0.025	ug/l	16/01/2017	Y Cov	GEO19
PAH, Total	0.162	ug/l	16/01/2017	N Cov	GEO19
SVOC	Y	ug/l	18/12/2016	N Cov	GEO40
Phenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chlorophenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylphenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
3&4-Methylphenol	<2.0	ug/l	18/12/2016	N Cov	GEO40
Dibenzofuran	<2.0	ug/l	18/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<2.0	ug/l	18/12/2016	Y Cov	GEO40

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Issue **3**

Laboratory Number: **15752011**

Sample **4** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW28**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<2.0	ug/l	18/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachloroethane	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Nitrobenzene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Isophorone	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2-Nitrophenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Naphthalene	<4.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Dimethylphthalate	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthylene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Diethylphthalate	<2.0	ug/l	18/12/2016	Y Cov	GEO40
4-Nitrophenol	<10.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Fluorene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Diphenylamine	<2.0	ug/l	18/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobenzene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Pentachlorophenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Phenanthrene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Anthracene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<2.0	ug/l	18/12/2016	Y Cov	GEO40

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Issue **3**
 Sample **4** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW28**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **13 December 2016**
 Sample Received: **14 December 2016**
 Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Pyrene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Chrysene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<10.0	ug/l	18/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2-Fluorophenol	93.3	%Recovery	18/12/2016	N Cov	GEO40
Phenol-d6	73.6	%Recovery	18/12/2016	N Cov	GEO40
Nitrobenzene-d5	84.1	%Recovery	18/12/2016	N Cov	GEO40
2-Fluorobiphenyl	87.2	%Recovery	18/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	76.4	%Recovery	18/12/2016	N Cov	GEO40
Terphenyl-d14	92.6	%Recovery	18/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	22/12/2016	N Cov	WAS036
Fluoroxypyr	<0.50	ug/l	30/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	27/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	27/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON

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Report Number: **COV/1345620/2016**
 Laboratory Number: **15752011**

Issue **3**
 Sample **4** of **9**

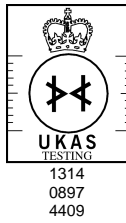
Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW28**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **13 December 2016**
 Sample Received: **14 December 2016**
 Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	27/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	27/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	27/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Benzene	<0.20	ug/l	27/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	27/12/2016	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
Bromoform	<0.20	ug/l	27/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	27/12/2016	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
Chloroform	<0.10	ug/l	27/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	27/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	27/12/2016	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	27/12/2016	Y S	SUBCON
Naphthalene	<1.0	ug/l	27/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON

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Issue **3**
Sample **4** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
Sample Point Description:
Sample Description: **EMW28**
Sample Matrix: **Ground Water**
Sample Date/Time: **13 December 2016**
Sample Received: **14 December 2016**
Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	27/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	27/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	27/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	27/12/2016	Y S	SUBCON
Toluene	<0.50	ug/l	27/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	27/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	27/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	27/12/2016	Y S	SUBCON

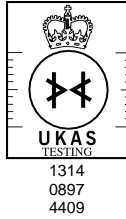
Analyst Comments for 15752011:

This sample has been analysed for Pesticides method GEO47, Iron Total as Fe, Manganese Total as Mn, Aluminium, Total as Al, Cadmium Total as Cd, Chromium Total as Cr, Lead Total as Pb, Nickel, Total as Ni, Zinc, Total as Zn, Calcium Total as Ca, Magnesium, Total as Mg, Sodium Total as Na, Potassium Total as K, Phosphates Total as P, Boron, Total as B, Vanadium Total as V, Barium, Total as Ba, Beryllium, Total as Be, Copper, ultra-low total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised. See attached SVOC-TIC Report.
The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis.
Acid Herbicides, PAH & SVOC reporting limits raised due to nature of sample matrix. The reporting limit has been raised for metals due to interference with the internal standard
AQC failure for Azinphos-Ethyl, unable to indicate.

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.
Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).
For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).
I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: *A I Horobin*
Name: **A. Horobin** Date: **23 January 2017**
Title: **Organic Operations Manager**

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Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752012**

Sample **5** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW29**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	<0.5	mg/l	29/12/2016	N Cov	WAS043
Nitrate as NO3	18.3	mg/l	16/12/2016	N Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	30/12/2016	Y Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	30/12/2016	Y Cov	WAS060
Arsenic, Ultra Low Total as As	<0.0010	mg/l	30/12/2016	Y Cov	WAS060
Fluoride	<0.100	mg/l	21/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Aluminium, Total as Al	0.3	mg/l	29/12/2016	Y Cov	WAS049
Barium, Total as Ba	0.046	mg/l	29/12/2016	Y Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	29/12/2016	Y Cov	WAS049
Boron, Total as B	<0.23	mg/l	29/12/2016	Y Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	29/12/2016	Y Cov	WAS049
Calcium , Total as Ca	178	mg/l	29/12/2016	Y Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	29/12/2016	Y Cov	WAS049
Copper, Ultra-low Total as Cu	5.3	ug/l	30/12/2016	Y Cov	WAS060
Iron , Total as Fe	0.99	mg/l	29/12/2016	Y Cov	WAS049
Ferrous Iron	<0.5	mg/l	29/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	29/12/2016	N Cov	WAS043
Lead , Total as Pb	<0.006	mg/l	29/12/2016	Y Cov	WAS049
Magnesium, Total as Mg	12.0	mg/l	29/12/2016	Y Cov	WAS049
Manganese , Total as Mn	0.075	mg/l	29/12/2016	Y Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	21/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.006	mg/l	29/12/2016	Y Cov	WAS049
Potassium , Total as K	1.10	mg/l	29/12/2016	Y Cov	WAS049
Sodium , Total as Na	15.3	mg/l	29/12/2016	Y Cov	WAS049
Vanadium , Total as V	<0.004	mg/l	29/12/2016	Y Cov	WAS049
Zinc, Total as Zn	0.02	mg/l	29/12/2016	Y Cov	WAS049
pH	7.1	pH units	15/12/2016	Y Cov	WAS039
Conductivity- Electrical 20C	904	uS/cm	15/12/2016	Y Cov	WAS039
Alkalinity as CaCO3	423	mg/l	15/12/2016	Y Cov	WAS025
Ammoniacal Nitrogen as N (LL)	0.12	mg/l	17/12/2016	Y Cov	WAS067

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Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752012**

Sample **5** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW29**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	25.2	mg/l	16/12/2016	N Cov	WAS036
Nitrite as N	<0.08	mg/l	16/12/2016	N Cov	WAS036
Phosphates , Total as P	<0.120	mg/l	29/12/2016	Y Cov	WAS049
Sulphate as SO4	88.3	mg/l	16/12/2016	N Cov	WAS036
BOD + ATU (5 day)	<1	mg/l	20/12/2016	Y Cov	WAS001
COD (Total)	16.0	mg/l	19/12/2016	Y Cov	WAS040
TOC (Filtered)	2.6	mg/l	16/12/2016	Y Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	19/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	19/12/2016	N Cov	WAS018
Sulphide as S	<0.020	mg/l	30/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	21/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	09/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	09/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	09/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	19/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	09/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	09/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	09/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	09/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	09/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	09/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	09/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	09/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	09/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	09/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	09/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	09/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	09/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	09/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	09/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	09/01/2017	Y Cov	GEO47

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Issue **3**

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Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW29**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

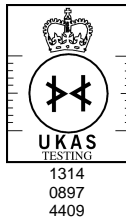
Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	09/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	09/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	09/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	09/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	09/01/2017	Y Cov	GEO47
Azinphos-ethyl	Analyst Com	ug/l	17/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	09/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	09/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	16/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	16/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	28/12/2016	Y Cov	GEO20

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Issue **3**
 Sample **5** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW29**
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 Sample Date/Time: **13 December 2016**
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 Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	28/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	28/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Mecoprop	<0.04	ug/l	28/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	16/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Naphthol	<0.10	ug/l	16/12/2016	N Cov	338
Phenol	<0.10	ug/l	16/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	16/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	21/12/2016	N Cov	GEO46

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Sample Point Description:

Sample Description: **EMW29**

Sample Matrix: **Ground Water**

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Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	<10	ug/l	22/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	<10	ug/l	22/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	<10	ug/l	22/12/2016	N Cov	GEO45/GEO4
Acenaphthene	0.041	ug/l	16/01/2017	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Anthracene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Chrysene	0.011	ug/l	16/01/2017	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Fluoranthene	1.65	ug/l	16/01/2017	Y Cov	GEO19
Fluorene	0.043	ug/l	16/01/2017	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Naphthalene	0.029	ug/l	16/01/2017	Y Cov	GEO19
Phenanthrene	1.29	ug/l	16/01/2017	Y Cov	GEO19
Pyrene	0.652	ug/l	16/01/2017	Y Cov	GEO19
PAH, Total	3.71	ug/l	16/01/2017	N Cov	GEO19
SVOC	Y	ug/l	18/12/2016	N Cov	GEO40
Phenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
3&4-Methylphenol	<1.0	ug/l	18/12/2016	N Cov	GEO40
Dibenzofuran	<1.0	ug/l	18/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40

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Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachloroethane	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Nitrobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Isophorone	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Nitrophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Naphthalene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Dimethylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthylene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Diethylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
4-Nitrophenol	<5.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Fluorene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Diphenylamine	<1.0	ug/l	18/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Pentachlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Phenanthrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40

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Sample Point Description:

Sample Description: **EMW29**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Chrysene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<5.0	ug/l	18/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Fluorophenol	92.3	%Recovery	18/12/2016	N Cov	GEO40
Phenol-d6	72.4	%Recovery	18/12/2016	N Cov	GEO40
Nitrobenzene-d5	81.3	%Recovery	18/12/2016	N Cov	GEO40
2-Fluorobiphenyl	81.9	%Recovery	18/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	71.0	%Recovery	18/12/2016	N Cov	GEO40
Terphenyl-d14	91.1	%Recovery	18/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	22/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	28/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	27/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	27/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON

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Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752012**

Sample **5** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW29**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	27/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	27/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	27/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Benzene	<0.20	ug/l	27/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	27/12/2016	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
Bromoform	1.11	ug/l	27/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	27/12/2016	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
Chloroform	<0.10	ug/l	27/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	27/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	27/12/2016	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	27/12/2016	Y S	SUBCON
Naphthalene	<1.0	ug/l	27/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON

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Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752012**

Sample **5** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW29**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	27/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	27/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	27/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	27/12/2016	Y S	SUBCON
Toluene	<0.50	ug/l	27/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	27/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	27/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	27/12/2016	Y S	SUBCON

Analyst Comments for 15752012:

This sample has been analysed for Pesticides method GEO47, Aluminium, Total as Al, Magnesium, Total as Mg, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba, Copper, ultra-low total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised. GEO40 SVOC Waters: See attached SVOC-TIC Report. {*/}The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis. {*/} AQC failure for Azinphos-Ethyl, unable to indicate.

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG). For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: *A I Horobin*

Name: **A. Horobin**

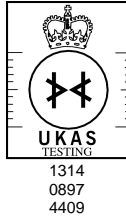
Date: **23 January 2017**

Title: **Organic Operations Manager**

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Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752013**

Sample **6** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW10**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	<0.5	mg/l	29/12/2016	N Cov	WAS043
Nitrate as NO3	<3.1	mg/l	16/12/2016	N Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	30/12/2016	Y Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	30/12/2016	Y Cov	WAS060
Arsenic, Ultra Low Total as As	<0.0010	mg/l	30/12/2016	Y Cov	WAS060
Fluoride	0.242	mg/l	22/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Aluminium, Total as Al	<0.1	mg/l	29/12/2016	Y Cov	WAS049
Barium, Total as Ba	0.063	mg/l	29/12/2016	Y Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	29/12/2016	Y Cov	WAS049
Boron, Total as B	<0.23	mg/l	29/12/2016	Y Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	29/12/2016	Y Cov	WAS049
Calcium , Total as Ca	118	mg/l	29/12/2016	Y Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	29/12/2016	Y Cov	WAS049
Copper, Ultra-low Total as Cu	<1.9	ug/l	30/12/2016	Y Cov	WAS060
Iron , Total as Fe	<0.23	mg/l	29/12/2016	Y Cov	WAS049
Ferrous Iron	<0.5	mg/l	29/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	29/12/2016	N Cov	WAS043
Lead , Total as Pb	<0.006	mg/l	29/12/2016	Y Cov	WAS049
Magnesium, Total as Mg	7.6	mg/l	29/12/2016	Y Cov	WAS049
Manganese , Total as Mn	0.370	mg/l	29/12/2016	Y Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	21/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.003	mg/l	29/12/2016	Y Cov	WAS049
Potassium , Total as K	3.90	mg/l	29/12/2016	Y Cov	WAS049
Sodium , Total as Na	34.9	mg/l	29/12/2016	Y Cov	WAS049
Vanadium , Total as V	<0.004	mg/l	29/12/2016	Y Cov	WAS049
Zinc, Total as Zn	<0.018	mg/l	29/12/2016	Y Cov	WAS049
pH	7.5	pH units	15/12/2016	Y Cov	WAS039
Conductivity- Electrical 20C	770	uS/cm	15/12/2016	Y Cov	WAS039
Alkalinity as CaCO3	346	mg/l	15/12/2016	Y Cov	WAS025
Ammoniacal Nitrogen as N (LL)	0.38	mg/l	19/12/2016	Y Cov	WAS067

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Issue **3**

Laboratory Number: **15752013**

Sample **6** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW10**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	56.0	mg/l	16/12/2016	N Cov	WAS036
Nitrite as N	<0.08	mg/l	16/12/2016	N Cov	WAS036
Phosphates , Total as P	<0.120	mg/l	29/12/2016	Y Cov	WAS049
Sulphate as SO4	27.3	mg/l	16/12/2016	N Cov	WAS036
BOD + ATU (5 day)	<1	mg/l	20/12/2016	Y Cov	WAS001
COD (Total)	23.0	mg/l	17/12/2016	Y Cov	WAS040
TOC (Filtered)	4.0	mg/l	16/12/2016	Y Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	19/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	19/12/2016	N Cov	WAS018
Sulphide as S	<0.020	mg/l	30/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	21/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	09/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	09/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	09/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	19/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	09/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	09/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	09/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	09/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	09/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	09/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	09/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	09/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	09/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	09/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	09/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	09/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	09/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	09/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	09/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	09/01/2017	Y Cov	GEO47

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Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752013**

Sample **6** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW10**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

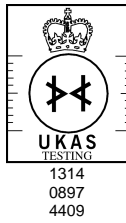
Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	09/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	09/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	09/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	09/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	09/01/2017	Y Cov	GEO47
Azinphos-ethyl	Analyst Com	ug/l	17/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	09/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	09/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	16/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	16/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	28/12/2016	Y Cov	GEO20

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Report Number: **COV/1345620/2016**
 Laboratory Number: **15752013**

Issue **3**
 Sample **6** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **SW10**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **13 December 2016**
 Sample Received: **14 December 2016**
 Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	28/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	28/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Mecoprop	<0.04	ug/l	28/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	16/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Naphthol	<0.10	ug/l	16/12/2016	N Cov	338
Phenol	<0.10	ug/l	16/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	16/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	21/12/2016	N Cov	GEO46

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Report Number: **COV/1345620/2016**
 Laboratory Number: **15752013**

Issue **3**
 Sample **6** of **9**

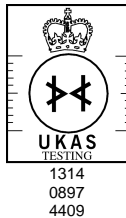
Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **SW10**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **13 December 2016**
 Sample Received: **14 December 2016**
 Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	<10	ug/l	22/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	<10	ug/l	22/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	<10	ug/l	22/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Anthracene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Chrysene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Fluoranthene	0.012	ug/l	16/01/2017	Y Cov	GEO19
Fluorene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Naphthalene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
Phenanthrene	0.023	ug/l	16/01/2017	Y Cov	GEO19
Pyrene	<0.01	ug/l	16/01/2017	Y Cov	GEO19
PAH, Total	0.035	ug/l	16/01/2017	N Cov	GEO19
SVOC	Y	ug/l	18/12/2016	N Cov	GEO40
Phenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
3&4-Methylphenol	<1.0	ug/l	18/12/2016	N Cov	GEO40
Dibenzofuran	<1.0	ug/l	18/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40

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Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752013**

Sample **6** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW10**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachloroethane	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Nitrobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Isophorone	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Nitrophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Naphthalene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Dimethylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthylene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Diethylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
4-Nitrophenol	<5.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Fluorene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Diphenylamine	<1.0	ug/l	18/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Pentachlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Phenanthrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40

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 Laboratory Number: **15752013**

Issue **3**
 Sample **6** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **SW10**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **13 December 2016**
 Sample Received: **14 December 2016**
 Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Chrysene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<5.0	ug/l	18/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Fluorophenol	89.6	%Recovery	18/12/2016	N Cov	GEO40
Phenol-d6	68.3	%Recovery	18/12/2016	N Cov	GEO40
Nitrobenzene-d5	81.2	%Recovery	18/12/2016	N Cov	GEO40
2-Fluorobiphenyl	83.0	%Recovery	18/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	72.3	%Recovery	18/12/2016	N Cov	GEO40
Terphenyl-d14	80.0	%Recovery	18/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	22/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	28/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	27/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	27/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON

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Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752013**

Sample **6** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW10**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

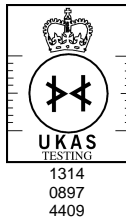
Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	27/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	27/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	27/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Benzene	<0.20	ug/l	27/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	27/12/2016	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
Bromoform	0.26	ug/l	27/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	27/12/2016	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
Chloroform	<0.10	ug/l	27/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	27/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	27/12/2016	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	27/12/2016	Y S	SUBCON
Naphthalene	<1.0	ug/l	27/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON

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Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752013**

Sample **6** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW10**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	27/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	27/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	27/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	27/12/2016	Y S	SUBCON
Toluene	<0.50	ug/l	27/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	27/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	27/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	27/12/2016	Y S	SUBCON

Analyst Comments for 15752013:

This sample has been analysed for Pesticides method GEO47, Aluminium, Total as Al, Magnesium, Total as Mg, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba, Copper, ultra-low total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised. GEO40 SVOC Waters: See attached SVOC-TIC Report. {(*)}The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis. {(*)} AQC failure for Azinphos-Ethyl, unable to indicate.

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG). For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: *A I Horobin*

Name: **A. Horobin**

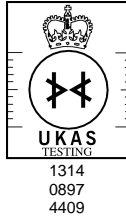
Date: **23 January 2017**

Title: **Organic Operations Manager**

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Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752014**

Sample **7** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW13**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	3.0	mg/l	29/12/2016	N Cov	WAS043
Nitrate as NO3	<3.1	mg/l	16/12/2016	N Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	30/12/2016	Y Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	30/12/2016	Y Cov	WAS060
Arsenic, Ultra Low Total as As	0.010	mg/l	30/12/2016	Y Cov	WAS060
Fluoride	0.230	mg/l	21/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Aluminium, Total as Al	0.2	mg/l	29/12/2016	Y Cov	WAS049
Barium, Total as Ba	0.127	mg/l	29/12/2016	Y Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	29/12/2016	Y Cov	WAS049
Boron, Total as B	<0.23	mg/l	29/12/2016	Y Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	29/12/2016	Y Cov	WAS049
Calcium , Total as Ca	141	mg/l	29/12/2016	Y Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	29/12/2016	Y Cov	WAS049
Copper, Ultra-low Total as Cu	7.6	ug/l	30/12/2016	Y Cov	WAS060
Iron , Total as Fe	7.41	mg/l	29/12/2016	Y Cov	WAS049
Ferrous Iron	3.0	mg/l	29/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	29/12/2016	N Cov	WAS043
Lead , Total as Pb	<0.006	mg/l	29/12/2016	Y Cov	WAS049
Magnesium, Total as Mg	7.6	mg/l	29/12/2016	Y Cov	WAS049
Manganese , Total as Mn	1.90	mg/l	29/12/2016	Y Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	21/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.004	mg/l	29/12/2016	Y Cov	WAS049
Potassium , Total as K	3.52	mg/l	29/12/2016	Y Cov	WAS049
Sodium , Total as Na	36.7	mg/l	29/12/2016	Y Cov	WAS049
Vanadium , Total as V	<0.004	mg/l	29/12/2016	Y Cov	WAS049
Zinc, Total as Zn	0.03	mg/l	29/12/2016	Y Cov	WAS049
pH	7.4	pH units	15/12/2016	Y Cov	WAS039
Conductivity- Electrical 20C	876	uS/cm	15/12/2016	Y Cov	WAS039
Alkalinity as CaCO3	402	mg/l	15/12/2016	Y Cov	WAS025
Ammoniacal Nitrogen as N (LL)	3.48	mg/l	17/12/2016	Y Cov	WAS067

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Issue **3**

Laboratory Number: **15752014**

Sample **7** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW13**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	70.2	mg/l	16/12/2016	N Cov	WAS036
Nitrite as N	<0.08	mg/l	16/12/2016	N Cov	WAS036
Phosphates , Total as P	0.80	mg/l	29/12/2016	Y Cov	WAS049
Sulphate as SO4	20.3	mg/l	16/12/2016	N Cov	WAS036
BOD + ATU (5 day)	6	mg/l	20/12/2016	Y Cov	WAS001
COD (Total)	67.0	mg/l	19/12/2016	Y Cov	WAS040
TOC (Filtered)	8.4	mg/l	16/12/2016	Y Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	19/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	19/12/2016	N Cov	WAS018
Sulphide as S	<0.020	mg/l	30/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	21/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	09/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	09/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	09/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	19/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	09/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	09/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	09/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	09/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	09/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	09/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	09/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	09/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	09/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	09/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	09/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	09/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	09/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	09/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	09/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	09/01/2017	Y Cov	GEO47

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Issue **3**

Laboratory Number: **15752014**

Sample **7** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW13**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

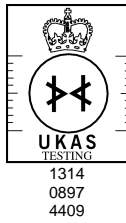
Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	09/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	09/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	09/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	09/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	09/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	09/01/2017	Y Cov	GEO47
Azinphos-ethyl	Analyst Com	ug/l	17/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	09/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	09/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	09/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	09/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	16/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	16/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	09/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	09/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.10	ug/l	05/01/2017	Y Cov	GEO20
2,4 - D	<0.10	ug/l	05/01/2017	Y Cov	GEO20
2,4 - DB	<0.10	ug/l	05/01/2017	Y Cov	GEO20
2,4,5 - T	<0.10	ug/l	05/01/2017	Y Cov	GEO20
Benazolin	<0.10	ug/l	05/01/2017	Y Cov	GEO20
Bentazone	<0.10	ug/l	05/01/2017	Y Cov	GEO20
Chlopyralid	<0.10	ug/l	05/01/2017	Y Cov	GEO20
Bromoxynil	<0.10	ug/l	05/01/2017	Y Cov	GEO20

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Report Number: **COV/1345620/2016**
 Laboratory Number: **15752014**

Issue **3**
 Sample **7** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **SW13**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **13 December 2016**
 Sample Received: **14 December 2016**
 Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.10	ug/l	05/01/2017	Y Cov	GEO20
Dichlorprop	<0.10	ug/l	05/01/2017	Y Cov	GEO20
Fenoprop	<0.10	ug/l	05/01/2017	Y Cov	GEO20
Ioxynil	<0.10	ug/l	05/01/2017	Y Cov	GEO20
MCPA	<0.10	ug/l	05/01/2017	Y Cov	GEO20
MCPB	<0.10	ug/l	05/01/2017	Y Cov	GEO20
Triclopyr	<0.10	ug/l	05/01/2017	Y Cov	GEO20
Mecoprop	<0.08	ug/l	05/01/2017	Y Cov	GEO20
Catechol	<0.10	ug/l	16/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Naphthol	<0.10	ug/l	16/12/2016	N Cov	338
Phenol	<0.10	ug/l	16/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	16/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	49	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	49	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	30	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	30	ug/l	22/12/2016	Y Cov	GEO45
VPH >C5 - C10	79	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	116	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	25	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	21/12/2016	N Cov	GEO46

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Report Number: **COV/1345620/2016**
 Laboratory Number: **15752014**

Issue **3**
 Sample **7** of **9**

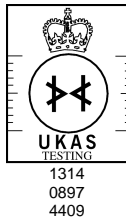
Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **SW13**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **13 December 2016**
 Sample Received: **14 December 2016**
 Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	141	ug/l	21/12/2016	N Cov	GEO46
EPH >C10 - C44	141	ug/l	21/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	49	ug/l	22/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	171	ug/l	22/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	220	ug/l	22/12/2016	N Cov	GEO45/GEO4
Acenaphthene	0.102	ug/l	16/01/2017	Y Cov	GEO19
Acenaphthylene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Anthracene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Benzo (a) anthracene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Benzo (a) pyrene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Benzo (b) fluoranthene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Benzo (k) fluoranthene	0.032	ug/l	16/01/2017	Y Cov	GEO19
Chrysene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Fluoranthene	0.030	ug/l	16/01/2017	Y Cov	GEO19
Fluorene	0.084	ug/l	16/01/2017	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Naphthalene	0.450	ug/l	16/01/2017	Y Cov	GEO19
Phenanthrene	0.042	ug/l	16/01/2017	Y Cov	GEO19
Pyrene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
PAH, Total	0.740	ug/l	16/01/2017	N Cov	GEO19
SVOC	Y	ug/l	18/12/2016	N Cov	GEO40
Phenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chlorophenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylphenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
3&4-Methylphenol	<2.0	ug/l	18/12/2016	N Cov	GEO40
Dibenzofuran	<2.0	ug/l	18/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<2.0	ug/l	18/12/2016	Y Cov	GEO40

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Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752014**

Sample **7** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW13**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

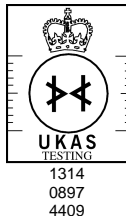
Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<2.0	ug/l	18/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachloroethane	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Nitrobenzene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Isophorone	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2-Nitrophenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Naphthalene	6.4	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylnaphthalene	4.4	ug/l	18/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Dimethylphthalate	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthylene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Diethylphthalate	<2.0	ug/l	18/12/2016	Y Cov	GEO40
4-Nitrophenol	<10.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Fluorene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Diphenylamine	<2.0	ug/l	18/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobenzene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Pentachlorophenol	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Phenanthrene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Anthracene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<2.0	ug/l	18/12/2016	Y Cov	GEO40

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Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752014**

Sample **7** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW13**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Pyrene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Chrysene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<10.0	ug/l	18/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
2-Fluorophenol	113.6	%Recovery	18/12/2016	N Cov	GEO40
Phenol-d6	99.9	%Recovery	18/12/2016	N Cov	GEO40
Nitrobenzene-d5	90.5	%Recovery	18/12/2016	N Cov	GEO40
2-Fluorobiphenyl	87.3	%Recovery	18/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	87.4	%Recovery	18/12/2016	N Cov	GEO40
Terphenyl-d14	103.6	%Recovery	18/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	22/12/2016	N Cov	WAS036
Fluoroxypyr	<0.10	ug/l	05/01/2017	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	27/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	27/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	28.2	ug/l	27/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON

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Issue **3**
 Sample **7** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **SW13**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **13 December 2016**
 Sample Received: **14 December 2016**
 Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	27/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	27/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	5.2	ug/l	27/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	27/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Benzene	0.80	ug/l	27/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	27/12/2016	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
Bromoform	<0.20	ug/l	27/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	27/12/2016	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
Chloroform	0.36	ug/l	27/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	27/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	27/12/2016	Y S	SUBCON
Ethyl Benzene	11.4	ug/l	27/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Isopropylbenzene	2.6	ug/l	27/12/2016	Y S	SUBCON
m&p-Xylene	14.9	ug/l	27/12/2016	Y S	SUBCON
Naphthalene	8.3	ug/l	27/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
n-Propylbenzene	2.5	ug/l	27/12/2016	Y S	SUBCON

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Issue **3**

Laboratory Number: **15752014**

Sample **7** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW13**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	3.58	ug/l	27/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	27/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	27/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	27/12/2016	Y S	SUBCON
Toluene	0.62	ug/l	27/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	27/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	27/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	27/12/2016	Y S	SUBCON

Analyst Comments for 15752014:

This sample has been analysed for Pesticides method GEO47, Aluminium, Total as Al, Magnesium, Total as Mg, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba, Copper, ultra-low total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised. GEO40 SVOC Waters: Reporting limits raised due to the nature of the sample matrix. See attached SVOC -TIC Report. {*/}The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis. {*/} Acid Herbicides reporting limits raised due to nature of sample matrix. Reporting limits raised for PAH due to nature of sample matrix. AQC failure for Azinphos-Ethyl, unable to indicate.

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.
Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).
For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).
I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: *A I Horobin*

Name: **A. Horobin**

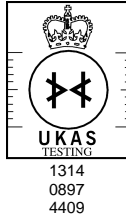
Date: **23 January 2017**

Title: **Organic Operations Manager**

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Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752015**

Sample **8** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW03**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	5.4	mg/l	29/12/2016	N Cov	WAS043
Nitrate as NO3	<3.1	mg/l	16/12/2016	N Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	30/12/2016	Y Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	30/12/2016	Y Cov	WAS060
Arsenic, Ultra Low Total as As	0.015	mg/l	30/12/2016	Y Cov	WAS060
Fluoride	<0.100	mg/l	21/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Aluminium, Total as Al	2.8	mg/l	29/12/2016	Y Cov	WAS049
Barium, Total as Ba	0.610	mg/l	29/12/2016	Y Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	29/12/2016	Y Cov	WAS049
Boron, Total as B	0.42	mg/l	29/12/2016	Y Cov	WAS049
Cadmium , Total as Cd	0.0017	mg/l	29/12/2016	Y Cov	WAS049
Calcium , Total as Ca	200	mg/l	29/12/2016	Y Cov	WAS049
Chromium , Total as Cr	0.007	mg/l	29/12/2016	Y Cov	WAS049
Copper, Ultra-low Total as Cu	24	ug/l	30/12/2016	Y Cov	WAS060
Iron , Total as Fe	59.8	mg/l	29/12/2016	Y Cov	WAS049
Ferrous Iron	5.5	mg/l	29/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	29/12/2016	N Cov	WAS043
Lead , Total as Pb	0.020	mg/l	29/12/2016	Y Cov	WAS049
Magnesium, Total as Mg	31.3	mg/l	29/12/2016	Y Cov	WAS049
Manganese , Total as Mn	1.82	mg/l	29/12/2016	Y Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	21/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.053	mg/l	29/12/2016	Y Cov	WAS049
Potassium , Total as K	18.5	mg/l	29/12/2016	Y Cov	WAS049
Sodium , Total as Na	38.5	mg/l	29/12/2016	Y Cov	WAS049
Vanadium , Total as V	0.009	mg/l	29/12/2016	Y Cov	WAS049
Zinc, Total as Zn	0.08	mg/l	29/12/2016	Y Cov	WAS049
pH	6.9	pH units	15/12/2016	Y Cov	WAS039
Conductivity- Electrical 20C	1510	uS/cm	15/12/2016	Y Cov	WAS039
Alkalinity as CaCO3	835	mg/l	15/12/2016	Y Cov	WAS025
Ammoniacal Nitrogen as N	23.8	mg/l	27/12/2016	N Cov	WAS036

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Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752015**

Sample **8** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW03**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	59.3	mg/l	16/12/2016	N Cov	WAS036
Nitrite as N	<0.08	mg/l	16/12/2016	N Cov	WAS036
Phosphates , Total as P	0.32	mg/l	29/12/2016	Y Cov	WAS049
Sulphate as SO4	66.2	mg/l	16/12/2016	N Cov	WAS036
BOD + ATU (5 day)	<1	mg/l	20/12/2016	Y Cov	WAS001
COD (Total)	186	mg/l	19/12/2016	Y Cov	WAS040
TOC (Filtered)	12.3	mg/l	16/12/2016	Y Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	19/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	19/12/2016	N Cov	WAS018
Sulphide as S	0.241	mg/l	30/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	21/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	10/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	10/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	10/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	19/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	10/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	10/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	10/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	10/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	10/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	10/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	10/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	10/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	10/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	10/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	10/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	10/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	10/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	10/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	10/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	10/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	10/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	10/01/2017	Y Cov	GEO47

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Issue **3**

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Sample **8** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW03**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

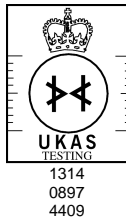
Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<5	ng/l	23/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	10/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	10/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	10/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	10/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	10/01/2017	Y Cov	GEO47
Azinphos-ethyl	Analyst Com	ug/l	23/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	10/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	10/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	10/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	10/01/2017	Y Cov	GEO47
Phosalone	<0.007	ug/l	23/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	23/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	10/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	30/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	30/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	30/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	30/12/2016	Y Cov	GEO20

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Issue **3**

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Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW03**

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Sample Date/Time: **13 December 2016**

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Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	30/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	30/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Mecoprop	1.62	ug/l	30/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	16/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Naphthol	<0.10	ug/l	16/12/2016	N Cov	338
Phenol	<0.10	ug/l	16/12/2016	N Cov	338
Trimethylphenol, Total	11	ug/l	16/12/2016	N Cov	338
Phenols, Total	11	ug/l	16/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	23/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	23/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	23/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	23/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	23/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	23/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	23/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	23/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	23/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	21/12/2016	N Cov	GEO46

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Issue **3**
 Sample **8** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
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Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	<10	ug/l	23/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	<10	ug/l	23/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	<10	ug/l	23/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.02	ug/l	09/01/2017	Y Cov	GEO19
Acenaphthylene	<0.02	ug/l	09/01/2017	Y Cov	GEO19
Anthracene	<0.02	ug/l	09/01/2017	Y Cov	GEO19
Benzo (a) anthracene	<0.02	ug/l	09/01/2017	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.02	ug/l	09/01/2017	Y Cov	GEO19
Benzo (a) pyrene	<0.02	ug/l	09/01/2017	Y Cov	GEO19
Benzo (b) fluoranthene	<0.02	ug/l	09/01/2017	Y Cov	GEO19
Benzo (k) fluoranthene	<0.02	ug/l	09/01/2017	Y Cov	GEO19
Chrysene	<0.02	ug/l	09/01/2017	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.02	ug/l	09/01/2017	Y Cov	GEO19
Fluoranthene	0.034	ug/l	09/01/2017	Y Cov	GEO19
Fluorene	<0.02	ug/l	09/01/2017	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.02	ug/l	09/01/2017	Y Cov	GEO19
Naphthalene	<0.02	ug/l	09/01/2017	Y Cov	GEO19
Phenanthrene	<0.02	ug/l	09/01/2017	Y Cov	GEO19
Pyrene	<0.02	ug/l	09/01/2017	Y Cov	GEO19
PAH, Total	0.034	ug/l	09/01/2017	N Cov	GEO19
SVOC	Y	ug/l	18/12/2016	N Cov	GEO40
Phenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
3&4-Methylphenol	<1.0	ug/l	18/12/2016	N Cov	GEO40
Dibenzofuran	<1.0	ug/l	18/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40

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Issue **3**

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Sample Point Description:

Sample Description: **EMW03**

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Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachloroethane	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Nitrobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Isophorone	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Nitrophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Naphthalene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Dimethylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthylene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Diethylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
4-Nitrophenol	<5.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Fluorene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Diphenylamine	<1.0	ug/l	18/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Pentachlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Phenanthrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40

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Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
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 Sample Matrix: **Ground Water**
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 Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Chrysene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<5.0	ug/l	18/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Fluorophenol	115.6	%Recovery	18/12/2016	N Cov	GEO40
Phenol-d6	122.6	%Recovery	18/12/2016	N Cov	GEO40
Nitrobenzene-d5	100.3	%Recovery	18/12/2016	N Cov	GEO40
2-Fluorobiphenyl	86.5	%Recovery	18/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	89.6	%Recovery	18/12/2016	N Cov	GEO40
Terphenyl-d14	97.1	%Recovery	18/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	22/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	30/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	27/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	27/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON

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Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW03**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

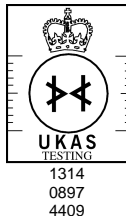
Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	27/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	27/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	27/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Benzene	0.43	ug/l	27/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	27/12/2016	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
Bromoform	<0.20	ug/l	27/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	27/12/2016	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
Chloroform	<0.10	ug/l	27/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	27/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	27/12/2016	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	27/12/2016	Y S	SUBCON
Naphthalene	<1.0	ug/l	27/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON

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Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752015**

Sample **8** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW03**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	27/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	27/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	27/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	27/12/2016	Y S	SUBCON
Toluene	<0.50	ug/l	27/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	27/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	27/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Vinyl Chloride	0.17	ug/l	27/12/2016	Y S	SUBCON

Analyst Comments for 15752015:

This sample has been analysed for Pesticides method GEO47, Ammoniacal Nitrogen as N, Aluminium, Total as Al, Magnesium, Total as Mg, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba, Copper, ultra-low total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised. GEO40 SVOC Waters: See attached SVOC-TIC Report. {(*)}The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis. {(*)}
Reporting limits raised for PAH & GCMSMS Pesticides due to nature of sample matrix.
AQC failure for Azinphos-Ethyl, unable to indicate.

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: *A I Horobin*

Name: **A. Horobin**

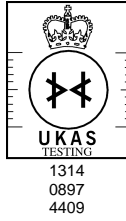
Date: **23 January 2017**

Title: **Organic Operations Manager**

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Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752016**

Sample **9** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW06**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	<0.5	mg/l	29/12/2016	N Cov	WAS043
Nitrate as NO3	<3.1	mg/l	16/12/2016	N Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	30/12/2016	Y Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	30/12/2016	Y Cov	WAS060
Arsenic, Ultra Low Total as As	0.0054	mg/l	03/01/2017	Y Cov	WAS060
Fluoride	0.112	mg/l	22/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Chloroethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Aluminium, Total as Al	3.5	mg/l	29/12/2016	Y Cov	WAS049
Barium, Total as Ba	0.111	mg/l	29/12/2016	Y Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	29/12/2016	Y Cov	WAS049
Boron, Total as B	<0.23	mg/l	29/12/2016	Y Cov	WAS049
Cadmium , Total as Cd	0.0033	mg/l	29/12/2016	Y Cov	WAS049
Calcium , Total as Ca	211	mg/l	29/12/2016	Y Cov	WAS049
Chromium , Total as Cr	0.007	mg/l	29/12/2016	Y Cov	WAS049
Copper, Ultra-low Total as Cu	31	ug/l	30/12/2016	Y Cov	WAS060
Iron , Total as Fe	8.55	mg/l	29/12/2016	Y Cov	WAS049
Ferrous Iron	<0.5	mg/l	29/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	29/12/2016	N Cov	WAS043
Lead , Total as Pb	0.038	mg/l	29/12/2016	Y Cov	WAS049
Magnesium, Total as Mg	11.6	mg/l	29/12/2016	Y Cov	WAS049
Manganese , Total as Mn	2.08	mg/l	29/12/2016	Y Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	21/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.046	mg/l	29/12/2016	Y Cov	WAS049
Potassium , Total as K	1.90	mg/l	29/12/2016	Y Cov	WAS049
Sodium , Total as Na	2.10	mg/l	29/12/2016	Y Cov	WAS049
Vanadium , Total as V	0.015	mg/l	29/12/2016	Y Cov	WAS049
Zinc, Total as Zn	0.10	mg/l	29/12/2016	Y Cov	WAS049
pH	7.3	pH units	15/12/2016	Y Cov	WAS039
Conductivity- Electrical 20C	547	uS/cm	15/12/2016	Y Cov	WAS039
Alkalinity as CaCO3	486	mg/l	15/12/2016	Y Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	19/12/2016	Y Cov	WAS067

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Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752016**

Sample **9** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW06**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

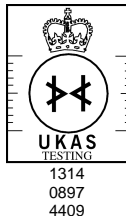
Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	5.7	mg/l	16/12/2016	N Cov	WAS036
Nitrite as N	<0.08	mg/l	16/12/2016	N Cov	WAS036
Phosphates , Total as P	0.50	mg/l	29/12/2016	Y Cov	WAS049
Sulphate as SO4	14.9	mg/l	16/12/2016	N Cov	WAS036
BOD + ATU (5 day)	<1	mg/l	20/12/2016	Y Cov	WAS001
COD (Total)	153	mg/l	19/12/2016	Y Cov	WAS040
TOC (Filtered)	1.0	mg/l	16/12/2016	Y Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	19/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	19/12/2016	N Cov	WAS018
Sulphide as S	0.067	mg/l	30/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	21/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	10/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	10/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	10/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	19/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	10/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	10/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	10/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	10/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	10/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	10/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	10/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	10/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	10/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	10/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	10/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	10/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	10/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	10/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	10/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	10/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	10/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	10/01/2017	Y Cov	GEO47

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Issue **3**

Laboratory Number: **15752016**

Sample **9** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW06**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<5	ng/l	23/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	10/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	10/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	10/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	10/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	10/01/2017	Y Cov	GEO47
Azinphos-ethyl	Analyst Com	ug/l	23/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	10/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	10/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	10/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	10/01/2017	Y Cov	GEO47
Phosalone	<0.007	ug/l	23/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	23/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	10/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	28/12/2016	Y Cov	GEO20

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Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752016**

Sample **9** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW06**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	28/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	28/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Mecoprop	<0.04	ug/l	28/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	16/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	16/12/2016	N Cov	338
Naphthol	<0.10	ug/l	16/12/2016	N Cov	338
Phenol	<0.10	ug/l	16/12/2016	N Cov	338
Trimethylphenol, Total	1.3	ug/l	16/12/2016	N Cov	338
Phenols, Total	1.3	ug/l	16/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	21/12/2016	N Cov	GEO46

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Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752016**

Sample **9** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW06**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

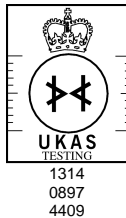
Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	<10	ug/l	22/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	<10	ug/l	22/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	<10	ug/l	22/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Anthracene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Chrysene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Fluoranthene	0.084	ug/l	09/01/2017	Y Cov	GEO19
Fluorene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Naphthalene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Phenanthrene	0.097	ug/l	09/01/2017	Y Cov	GEO19
Pyrene	0.022	ug/l	09/01/2017	Y Cov	GEO19
PAH, Total	0.203	ug/l	09/01/2017	N Cov	GEO19
SVOC	Y	ug/l	18/12/2016	N Cov	GEO40
Phenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
3&4-Methylphenol	<1.0	ug/l	18/12/2016	N Cov	GEO40
Dibenzofuran	<1.0	ug/l	18/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40

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Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752016**

Sample **9** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW06**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachloroethane	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Nitrobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Isophorone	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Nitrophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Naphthalene	<2.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Dimethylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthylene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Acenaphthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Diethylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
4-Nitrophenol	<5.0	ug/l	18/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Fluorene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Diphenylamine	<1.0	ug/l	18/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Hexachlorobenzene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Pentachlorophenol	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Phenanthrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40

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Report Number: **COV/1345620/2016**
 Laboratory Number: **15752016**

Issue **3**
 Sample **9** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW06**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **13 December 2016**
 Sample Received: **14 December 2016**
 Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Chrysene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<5.0	ug/l	18/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<1.0	ug/l	18/12/2016	Y Cov	GEO40
2-Fluorophenol	118.7	%Recovery	18/12/2016	N Cov	GEO40
Phenol-d6	102.8	%Recovery	18/12/2016	N Cov	GEO40
Nitrobenzene-d5	103.7	%Recovery	18/12/2016	N Cov	GEO40
2-Fluorobiphenyl	88.4	%Recovery	18/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	80.1	%Recovery	18/12/2016	N Cov	GEO40
Terphenyl-d14	99.5	%Recovery	18/12/2016	N Cov	GEO40
Nitrite as NO2	<0.28	mg/l	22/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	28/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	27/12/2016	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	27/12/2016	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON

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Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752016**

Sample **9** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW06**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

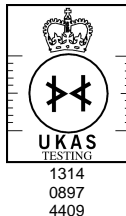
Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	27/12/2016	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	27/12/2016	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	27/12/2016	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	27/12/2016	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Benzene	<0.20	ug/l	27/12/2016	Y S	SUBCON
Bromobenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	27/12/2016	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
Bromoform	0.36	ug/l	27/12/2016	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	27/12/2016	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
Chloroform	<0.10	ug/l	27/12/2016	Y S	SUBCON
Chloromethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	27/12/2016	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	27/12/2016	Y S	SUBCON
Dibromomethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Dichloromethane	<6.0	ug/l	27/12/2016	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	27/12/2016	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	27/12/2016	Y S	SUBCON
Naphthalene	<1.0	ug/l	27/12/2016	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON

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Report Number: **COV/1345620/2016**

Issue **3**

Laboratory Number: **15752016**

Sample **9** of **9**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW06**

Sample Matrix: **Ground Water**

Sample Date/Time: **13 December 2016**

Sample Received: **14 December 2016**

Analysis Complete: **23 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	27/12/2016	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	27/12/2016	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Styrene	<0.20	ug/l	27/12/2016	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	27/12/2016	Y S	SUBCON
Toluene	<0.50	ug/l	27/12/2016	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	27/12/2016	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	27/12/2016	Y S	SUBCON
Trichloroethene	<0.10	ug/l	27/12/2016	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	27/12/2016	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	27/12/2016	Y S	SUBCON

Analyst Comments for 15752016:

This sample has been analysed for Pesticides method GEO47, Aluminium, Total as Al, Magnesium, Total as Mg, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba, Copper, ultra-low total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised. GEO40 SVOC Waters: See attached SVOC-TIC Report. {*/}The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis. {*/} Reporting limits raised for GCMSMS Pesticides due to nature of sample matrix. AQC failure for Azinphos-Ethyl, unable to indicate.

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: *A I Horobin*

Name: **A. Horobin**

Date: **23 January 2017**

Title: **Organic Operations Manager**

ALS Environmental Ltd

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ALS Environmental Ltd
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Mr Downes
SKM Ireland c/o Jacobs
Engineering Ireland
Jacobs
Merrion House
Merrion Road
Dublin 4 South Dublin

17 January 2017

Test Report: COV/1346206/2016

Dear Mr Downes

Analysis of your sample(s) submitted on 15 December 2016 is now complete and we have pleasure in enclosing the appropriate test report(s).

An invoice for the analysis carried out will be sent under separate cover.

Should you have any queries regarding this report(s) or any part of our service, please contact Customer Services on +44 (0)24 7642 1213 who will be happy to discuss your requirements.

If you would like to arrange any further analysis, please contact Customer Services. To arrange container delivery or sample collection, please call the Couriers Department directly on 024 7685 6562.

Thank you for using ALS Environmental Ltd and we look forward to receiving your next samples.

Yours Sincerely,

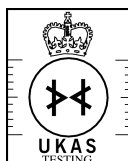
Signed: 

Name: A. Horobin

Title: Organic Operations Manager



Report Summary



1314
0897
4409



**Mr Ultan Downes
SKM Ireland c/o Jacobs
Engineering Ireland
Jacobs
Merrion House
Merrion Road
Dublin 4
South Dublin**

Date of Issue: **17 January 2017**

Report Number: **COV/1346206/2016**

Issue **3**

Job Description: Kerdiffstown Landfill

Job Location: 32EW5604 KLRP

Number of Samples
included in this report **6**

Job Received: **15 December 2016**

Number of Test Results
included in this report **1650**

Analysis Commenced: **16 December 2016**

Signed:

A I Horobin

Name: **A. Horobin**

Date: **17 January 2017**

Title: **Organic Operations Manager**

ALS Environmental Ltd was not responsible for sampling unless otherwise stated. Sampling is not covered by our UKAS accreditation.

Information on the methods of analysis and performance characteristics are available on request.

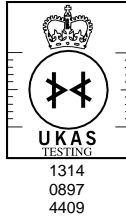
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. The results relate only to the items tested.

Tests marked 'Not UKAS Accredited' in this Report/Certificate are not included in the UKAS Accreditation Schedule for our laboratory.

This communication has been sent to you by ALS Environmental Ltd. Registered in England and Wales. Registration No. 02148934. Registered Office: ALS Environmental Limited, Torrington Avenue, Coventry, CV4 9GU.

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Certificate of Analysis



Report Number: **COV/1346206/2016**

Issue **3**

Laboratory Number: **15756016**

Sample **1** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW11**

Sample Matrix: **Surface Water**

Sample Date/Time: **14 December 2016**

Sample Received: **15 December 2016**

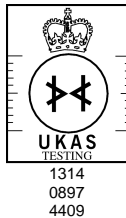
Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	<0.5	mg/l	29/12/2016	N Cov	WAS043
Nitrate as NO3	<3.1	mg/l	16/12/2016	Y Cov	WAS036
Antimony Ultra Low Total as Sb	0.0027	mg/l	03/01/2017	N Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	03/01/2017	N Cov	WAS060
Arsenic, Ultra Low Total as As	0.0023	mg/l	03/01/2017	N Cov	WAS060
Fluoride	0.075	mg/l	22/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	03/01/2017	Y S	SUBCON
Chloroethane	<1.0	ug/l	03/01/2017	Y S	SUBCON
Aluminium, Total as Al	0.5	mg/l	30/12/2016	N Cov	WAS049
Barium, Total as Ba	0.047	mg/l	30/12/2016	N Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	30/12/2016	N Cov	WAS049
Boron, Total as B	<0.23	mg/l	30/12/2016	N Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	30/12/2016	N Cov	WAS049
Calcium , Total as Ca	43.0	mg/l	30/12/2016	N Cov	WAS049
Chromium , Total as Cr	0.003	mg/l	30/12/2016	N Cov	WAS049
Copper, Ultra-low Total as Cu	16	ug/l	03/01/2017	N Cov	WAS060
Iron , Total as Fe	1.61	mg/l	30/12/2016	N Cov	WAS049
Ferrous Iron	<0.5	mg/l	29/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	29/12/2016	N Cov	WAS043
Lead , Total as Pb	0.009	mg/l	30/12/2016	N Cov	WAS049
Magnesium, Total as Mg	2.7	mg/l	30/12/2016	N Cov	WAS049
Manganese , Total as Mn	0.325	mg/l	30/12/2016	N Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	28/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.008	mg/l	30/12/2016	N Cov	WAS049
Potassium , Total as K	2.25	mg/l	30/12/2016	N Cov	WAS049
Sodium , Total as Na	27.2	mg/l	30/12/2016	N Cov	WAS049
Vanadium , Total as V	<0.004	mg/l	30/12/2016	N Cov	WAS049
Zinc, Total as Zn	0.202	mg/l	30/12/2016	N Cov	WAS049
pH	7.8	pH units	16/12/2016	N Cov	WAS039
Conductivity- Electrical 20C	337	uS/cm	16/12/2016	N Cov	WAS039
Alkalinity as CaCO3	96.8	mg/l	16/12/2016	N Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	19/12/2016	N Cov	WAS067

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Report Number: **COV/1346206/2016**

Issue **3**

Laboratory Number: **15756016**

Sample **1** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW11**

Sample Matrix: **Surface Water**

Sample Date/Time: **14 December 2016**

Sample Received: **15 December 2016**

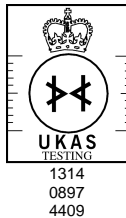
Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	52.6	mg/l	16/12/2016	Y Cov	WAS036
Nitrite as N	<0.08	mg/l	16/12/2016	Y Cov	WAS036
Phosphates , Total as P	0.21	mg/l	30/12/2016	N Cov	WAS049
Sulphate as SO4	8.5	mg/l	16/12/2016	Y Cov	WAS036
BOD + ATU (5 day)	2	mg/l	26/12/2016	Y Cov	WAS001
COD (Total)	32.0	mg/l	20/12/2016	Y Cov	WAS040
TOC (Filtered)	4.2	mg/l	19/12/2016	N Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	19/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	19/12/2016	N Cov	WAS018
Sulphide as S	<0.020	mg/l	30/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	21/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	10/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	10/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	10/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	23/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	10/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	10/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	10/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	10/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	10/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	10/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	10/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	10/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	10/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	10/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	10/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	10/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	10/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	10/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	10/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	10/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	10/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	10/01/2017	Y Cov	GEO47

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Report Number: **COV/1346206/2016**

Issue **3**

Laboratory Number: **15756016**

Sample **1** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW11**

Sample Matrix: **Surface Water**

Sample Date/Time: **14 December 2016**

Sample Received: **15 December 2016**

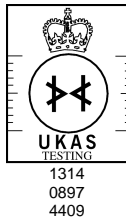
Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	17/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	10/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	10/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	10/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	10/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	10/01/2017	Y Cov	GEO47
Azinphos-ethyl	<0.004	ug/l	17/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Diazinon	0.006	ug/l	10/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	10/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	10/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	10/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	10/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	17/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	17/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	10/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	28/12/2016	Y Cov	GEO20

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Report Number: **COV/1346206/2016**

Issue **3**

Laboratory Number: **15756016**

Sample **1** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW11**

Sample Matrix: **Surface Water**

Sample Date/Time: **14 December 2016**

Sample Received: **15 December 2016**

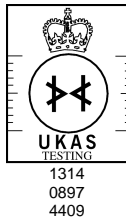
Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	28/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	28/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Mecoprop	<0.04	ug/l	28/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	23/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	23/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	23/12/2016	N Cov	338
Naphthol	<0.10	ug/l	23/12/2016	N Cov	338
Phenol	<0.10	ug/l	23/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	23/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	23/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	67	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	12	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	80	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	13	ug/l	21/12/2016	N Cov	GEO46

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Report Number: **COV/1346206/2016**

Issue **3**

Laboratory Number: **15756016**

Sample **1** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW11**

Sample Matrix: **Surface Water**

Sample Date/Time: **14 December 2016**

Sample Received: **15 December 2016**

Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	13	ug/l	21/12/2016	N Cov	GEO46
EPH >C10 - C44	93	ug/l	21/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	80	ug/l	22/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	13	ug/l	22/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	93	ug/l	22/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.02	ug/l	09/01/2017	Y Cov	GEO19
Acenaphthylene	<0.02	ug/l	09/01/2017	Y Cov	GEO19
Anthracene	<0.02	ug/l	09/01/2017	Y Cov	GEO19
Benzo (a) anthracene	<0.02	ug/l	09/01/2017	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.02	ug/l	09/01/2017	Y Cov	GEO19
Benzo (a) pyrene	<0.02	ug/l	09/01/2017	Y Cov	GEO19
Benzo (b) fluoranthene	<0.02	ug/l	09/01/2017	Y Cov	GEO19
Benzo (k) fluoranthene	<0.02	ug/l	09/01/2017	Y Cov	GEO19
Chrysene	<0.02	ug/l	09/01/2017	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.02	ug/l	09/01/2017	Y Cov	GEO19
Fluoranthene	0.187	ug/l	09/01/2017	Y Cov	GEO19
Fluorene	<0.02	ug/l	09/01/2017	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.02	ug/l	09/01/2017	Y Cov	GEO19
Naphthalene	<0.02	ug/l	09/01/2017	Y Cov	GEO19
Phenanthrene	0.048	ug/l	09/01/2017	Y Cov	GEO19
Pyrene	0.096	ug/l	09/01/2017	Y Cov	GEO19
PAH, Total	0.332	ug/l	09/01/2017	N Cov	GEO19
SVOC	Y	ug/l	21/12/2016	N Cov	GEO40
Phenol	<2.0	ug/l	21/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<2.0	ug/l	21/12/2016	Y Cov	GEO40
2-Chlorophenol	<2.0	ug/l	21/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<2.0	ug/l	21/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<2.0	ug/l	21/12/2016	Y Cov	GEO40
2-Methylphenol	<2.0	ug/l	21/12/2016	Y Cov	GEO40
3&4-Methylphenol	<2.0	ug/l	21/12/2016	N Cov	GEO40
Dibenzofuran	<2.0	ug/l	21/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<2.0	ug/l	21/12/2016	Y Cov	GEO40

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Issue **3**

Laboratory Number: **15756016**

Sample **1** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW11**

Sample Matrix: **Surface Water**

Sample Date/Time: **14 December 2016**

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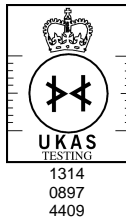
Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<2.0	ug/l	21/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<2.0	ug/l	21/12/2016	Y Cov	GEO40
Hexachloroethane	<2.0	ug/l	21/12/2016	Y Cov	GEO40
Nitrobenzene	<2.0	ug/l	21/12/2016	Y Cov	GEO40
Isophorone	<2.0	ug/l	21/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<2.0	ug/l	21/12/2016	Y Cov	GEO40
2-Nitrophenol	<2.0	ug/l	21/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<2.0	ug/l	21/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<2.0	ug/l	21/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<2.0	ug/l	21/12/2016	Y Cov	GEO40
Naphthalene	<4.0	ug/l	21/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<2.0	ug/l	21/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<2.0	ug/l	21/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<2.0	ug/l	21/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<2.0	ug/l	21/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<2.0	ug/l	21/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<2.0	ug/l	21/12/2016	Y Cov	GEO40
Dimethylphthalate	<2.0	ug/l	21/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<2.0	ug/l	21/12/2016	Y Cov	GEO40
Acenaphthylene	<2.0	ug/l	21/12/2016	Y Cov	GEO40
Acenaphthene	<2.0	ug/l	21/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<2.0	ug/l	21/12/2016	Y Cov	GEO40
Diethylphthalate	<2.0	ug/l	21/12/2016	Y Cov	GEO40
4-Nitrophenol	<10.0	ug/l	21/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<2.0	ug/l	21/12/2016	Y Cov	GEO40
Fluorene	<2.0	ug/l	21/12/2016	Y Cov	GEO40
Diphenylamine	<2.0	ug/l	21/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<2.0	ug/l	21/12/2016	Y Cov	GEO40
Hexachlorobenzene	<2.0	ug/l	21/12/2016	Y Cov	GEO40
Pentachlorophenol	<2.0	ug/l	21/12/2016	Y Cov	GEO40
Phenanthrene	<2.0	ug/l	21/12/2016	Y Cov	GEO40
Anthracene	<2.0	ug/l	21/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<2.0	ug/l	21/12/2016	Y Cov	GEO40

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Report Number: **COV/1346206/2016**

Issue **3**

Laboratory Number: **15756016**

Sample **1** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW11**

Sample Matrix: **Surface Water**

Sample Date/Time: **14 December 2016**

Sample Received: **15 December 2016**

Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<2.0	ug/l	21/12/2016	Y Cov	GEO40
Pyrene	<2.0	ug/l	21/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<2.0	ug/l	21/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<2.0	ug/l	21/12/2016	Y Cov	GEO40
Chrysene	<2.0	ug/l	21/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<10.0	ug/l	21/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<2.0	ug/l	21/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<2.0	ug/l	21/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<2.0	ug/l	21/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<2.0	ug/l	21/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<2.0	ug/l	21/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<2.0	ug/l	21/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<2.0	ug/l	21/12/2016	Y Cov	GEO40
2-Fluorophenol	81.5	%Recovery	21/12/2016	N Cov	GEO40
Phenol-d6	72.1	%Recovery	21/12/2016	N Cov	GEO40
Nitrobenzene-d5	83.7	%Recovery	21/12/2016	N Cov	GEO40
2-Fluorobiphenyl	89.4	%Recovery	21/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	66.8	%Recovery	21/12/2016	N Cov	GEO40
Terphenyl-d14	85.9	%Recovery	21/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	22/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	28/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	03/01/2017	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	03/01/2017	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	03/01/2017	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	03/01/2017	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	03/01/2017	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	03/01/2017	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	03/01/2017	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	03/01/2017	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	03/01/2017	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	03/01/2017	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	03/01/2017	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	03/01/2017	Y S	SUBCON

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Report Number: **COV/1346206/2016**

Issue **3**

Laboratory Number: **15756016**

Sample **1** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW11**

Sample Matrix: **Surface Water**

Sample Date/Time: **14 December 2016**

Sample Received: **15 December 2016**

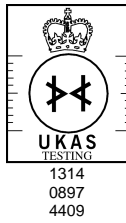
Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	03/01/2017	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	03/01/2017	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	03/01/2017	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	03/01/2017	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	03/01/2017	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	03/01/2017	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	03/01/2017	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	03/01/2017	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	03/01/2017	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	03/01/2017	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	03/01/2017	Y S	SUBCON
Benzene	<0.20	ug/l	03/01/2017	Y S	SUBCON
Bromobenzene	<1.0	ug/l	03/01/2017	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	03/01/2017	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	03/01/2017	Y S	SUBCON
Bromoform	0.31	ug/l	03/01/2017	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	03/01/2017	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	03/01/2017	Y S	SUBCON
Chloroform	<0.10	ug/l	03/01/2017	Y S	SUBCON
Chloromethane	<1.0	ug/l	03/01/2017	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	03/01/2017	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	03/01/2017	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	03/01/2017	Y S	SUBCON
Dibromomethane	<1.0	ug/l	03/01/2017	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	03/01/2017	Y S	SUBCON
Dichloromethane	16.4	ug/l	03/01/2017	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	03/01/2017	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	03/01/2017	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	03/01/2017	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	03/01/2017	Y S	SUBCON
Naphthalene	<1.0	ug/l	03/01/2017	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	03/01/2017	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	03/01/2017	Y S	SUBCON

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Report Number: **COV/1346206/2016**

Issue **3**

Laboratory Number: **15756016**

Sample **1** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW11**

Sample Matrix: **Surface Water**

Sample Date/Time: **14 December 2016**

Sample Received: **15 December 2016**

Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	03/01/2017	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	03/01/2017	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	03/01/2017	Y S	SUBCON
Styrene	<0.20	ug/l	03/01/2017	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	03/01/2017	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	03/01/2017	Y S	SUBCON
Toluene	<0.50	ug/l	03/01/2017	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	03/01/2017	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	03/01/2017	Y S	SUBCON
Trichloroethene	<0.10	ug/l	03/01/2017	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	03/01/2017	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	03/01/2017	Y S	SUBCON

Analyst Comments for 15756016:

This sample has been analysed for Pesticides method GEO47, pH, BOD + ATU (5 day), Aluminium, Total as Al, Magnesium, Total as Mg, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba, Copper, ultra-low total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised. See attached SVOC-TIC Report. This sample for the SVOC, has been analysed outside recommended stability times. It is therefore possible that the results provided may be compromised. The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis. The sample for Sulphide was received in a container inappropriate for this parameter. It is therefore possible that the results provided may be compromised. Reporting limits raised for PAH & SVOC due to nature of sample matrix.

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG). For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: *A I Horobin*

Name: **A. Horobin**

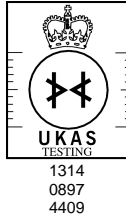
Date: **17 January 2017**

Title: **Organic Operations Manager**

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Certificate of Analysis



Report Number: **COV/1346206/2016**

Issue **3**

Laboratory Number: **15756017**

Sample **2** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW12**

Sample Matrix: **Surface Water**

Sample Date/Time: **14 December 2016**

Sample Received: **15 December 2016**

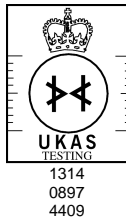
Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	<0.5	mg/l	29/12/2016	N Cov	WAS043
Nitrate as NO3	<3.1	mg/l	16/12/2016	Y Cov	WAS036
Antimony Ultra Low Total as Sb	0.0017	mg/l	03/01/2017	N Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	03/01/2017	N Cov	WAS060
Arsenic, Ultra Low Total as As	0.0014	mg/l	03/01/2017	N Cov	WAS060
Fluoride	0.041	mg/l	22/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	03/01/2017	Y S	SUBCON
Chloroethane	<1.0	ug/l	03/01/2017	Y S	SUBCON
Aluminium, Total as Al	0.6	mg/l	30/12/2016	N Cov	WAS049
Barium, Total as Ba	0.037	mg/l	30/12/2016	N Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	30/12/2016	N Cov	WAS049
Boron, Total as B	<0.23	mg/l	30/12/2016	N Cov	WAS049
Cadmium , Total as Cd	0.0007	mg/l	30/12/2016	N Cov	WAS049
Calcium , Total as Ca	38.7	mg/l	30/12/2016	N Cov	WAS049
Chromium , Total as Cr	0.003	mg/l	30/12/2016	N Cov	WAS049
Copper, Ultra-low Total as Cu	17	ug/l	03/01/2017	N Cov	WAS060
Iron , Total as Fe	1.29	mg/l	30/12/2016	N Cov	WAS049
Ferrous Iron	<0.5	mg/l	29/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	29/12/2016	N Cov	WAS043
Lead , Total as Pb	0.010	mg/l	30/12/2016	N Cov	WAS049
Magnesium, Total as Mg	2.9	mg/l	30/12/2016	N Cov	WAS049
Manganese , Total as Mn	0.143	mg/l	30/12/2016	N Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	28/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.008	mg/l	30/12/2016	N Cov	WAS049
Potassium , Total as K	1.49	mg/l	30/12/2016	N Cov	WAS049
Sodium , Total as Na	13.6	mg/l	30/12/2016	N Cov	WAS049
Vanadium , Total as V	<0.004	mg/l	30/12/2016	N Cov	WAS049
Zinc, Total as Zn	0.184	mg/l	30/12/2016	N Cov	WAS049
pH	7.8	pH units	16/12/2016	N Cov	WAS039
Conductivity- Electrical 20C	235	uS/cm	16/12/2016	N Cov	WAS039
Alkalinity as CaCO3	85.6	mg/l	16/12/2016	N Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	19/12/2016	N Cov	WAS067

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Report Number: **COV/1346206/2016**
 Laboratory Number: **15756017**

Issue **3**
 Sample **2** of **6**

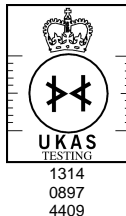
Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **SW12**
 Sample Matrix: **Surface Water**
 Sample Date/Time: **14 December 2016**
 Sample Received: **15 December 2016**
 Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	25.0	mg/l	16/12/2016	Y Cov	WAS036
Nitrite as N	<0.08	mg/l	16/12/2016	Y Cov	WAS036
Phosphates , Total as P	0.19	mg/l	30/12/2016	N Cov	WAS049
Sulphate as SO4	5.0	mg/l	16/12/2016	Y Cov	WAS036
BOD + ATU (5 day)	2	mg/l	26/12/2016	Y Cov	WAS001
COD (Total)	41.0	mg/l	20/12/2016	Y Cov	WAS040
TOC (Filtered)	2.6	mg/l	19/12/2016	N Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	19/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	19/12/2016	N Cov	WAS018
Sulphide as S	0.034	mg/l	30/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	21/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	10/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	10/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	10/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	23/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	10/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	10/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	10/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	10/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	10/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	10/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	10/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	10/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	10/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	10/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	10/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	10/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	10/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	10/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	10/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	10/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	10/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	10/01/2017	Y Cov	GEO47

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Report Number: **COV/1346206/2016**

Issue **3**

Laboratory Number: **15756017**

Sample **2** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **SW12**

Sample Matrix: **Surface Water**

Sample Date/Time: **14 December 2016**

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Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	17/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	10/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	10/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	10/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	10/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	10/01/2017	Y Cov	GEO47
Azinphos-ethyl	<0.004	ug/l	17/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Diazinon	0.005	ug/l	10/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	10/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	10/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	10/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	10/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	17/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	17/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	10/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	28/12/2016	Y Cov	GEO20

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Report Number: **COV/1346206/2016**
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Issue **3**
 Sample **2** of **6**

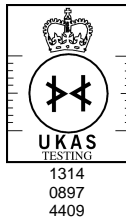
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Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	28/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	28/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Mecoprop	<0.04	ug/l	28/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	23/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	23/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	23/12/2016	N Cov	338
Naphthol	<0.10	ug/l	23/12/2016	N Cov	338
Phenol	<0.10	ug/l	23/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	23/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	23/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	47	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	47	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	11	ug/l	21/12/2016	N Cov	GEO46

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Issue **3**
 Sample **2** of **6**

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Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	11	ug/l	21/12/2016	N Cov	GEO46
EPH >C10 - C44	57	ug/l	21/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	47	ug/l	22/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	11	ug/l	22/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	58	ug/l	22/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Acenaphthylene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Anthracene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Benzo (a) anthracene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Benzo (a) pyrene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Benzo (b) fluoranthene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Benzo (k) fluoranthene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Chrysene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Fluoranthene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Fluorene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Naphthalene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Phenanthrene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
Pyrene	<0.02	ug/l	16/01/2017	Y Cov	GEO19
PAH, Total	<0.02	ug/l	16/01/2017	N Cov	GEO19
SVOC	Y	ug/l	22/12/2016	N Cov	GEO40
Phenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Chlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Methylphenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
3&4-Methylphenol	<1.0	ug/l	22/12/2016	N Cov	GEO40
Dibenzofuran	<1.0	ug/l	22/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40

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 Sample **2** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **SW12**
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 Sample Date/Time: **14 December 2016**
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Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<1.0	ug/l	22/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Hexachloroethane	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Nitrobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Isophorone	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Nitrophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Naphthalene	<2.0	ug/l	22/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Dimethylphthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Acenaphthylene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Acenaphthene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Diethylphthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40
4-Nitrophenol	<5.0	ug/l	22/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Fluorene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Diphenylamine	<1.0	ug/l	22/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Hexachlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Pentachlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Phenanthrene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Anthracene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40

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 Sample **2** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **SW12**
 Sample Matrix: **Surface Water**
 Sample Date/Time: **14 December 2016**
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Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Pyrene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Chrysene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<5.0	ug/l	22/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Fluorophenol	69.0	%Recovery	22/12/2016	N Cov	GEO40
Phenol-d6	61.9	%Recovery	22/12/2016	N Cov	GEO40
Nitrobenzene-d5	75.6	%Recovery	22/12/2016	N Cov	GEO40
2-Fluorobiphenyl	78.7	%Recovery	22/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	76.7	%Recovery	22/12/2016	N Cov	GEO40
Terphenyl-d14	93.4	%Recovery	22/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	22/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	28/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	03/01/2017	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	03/01/2017	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	03/01/2017	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	03/01/2017	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	03/01/2017	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	03/01/2017	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	03/01/2017	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	03/01/2017	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	03/01/2017	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	03/01/2017	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	03/01/2017	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	03/01/2017	Y S	SUBCON

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Report Number: **COV/1346206/2016**
 Laboratory Number: **15756017**

Issue **3**
 Sample **2** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **SW12**
 Sample Matrix: **Surface Water**
 Sample Date/Time: **14 December 2016**
 Sample Received: **15 December 2016**
 Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	03/01/2017	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	03/01/2017	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	03/01/2017	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	03/01/2017	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	03/01/2017	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	03/01/2017	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	03/01/2017	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	03/01/2017	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	03/01/2017	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	03/01/2017	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	03/01/2017	Y S	SUBCON
Benzene	<0.20	ug/l	03/01/2017	Y S	SUBCON
Bromobenzene	<1.0	ug/l	03/01/2017	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	03/01/2017	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	03/01/2017	Y S	SUBCON
Bromoform	0.25	ug/l	03/01/2017	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	03/01/2017	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	03/01/2017	Y S	SUBCON
Chloroform	<0.10	ug/l	03/01/2017	Y S	SUBCON
Chloromethane	<1.0	ug/l	03/01/2017	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	03/01/2017	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	03/01/2017	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	03/01/2017	Y S	SUBCON
Dibromomethane	<1.0	ug/l	03/01/2017	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	03/01/2017	Y S	SUBCON
Dichloromethane	18.5	ug/l	03/01/2017	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	03/01/2017	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	03/01/2017	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	03/01/2017	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	03/01/2017	Y S	SUBCON
Naphthalene	<1.0	ug/l	03/01/2017	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	03/01/2017	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	03/01/2017	Y S	SUBCON

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Laboratory Number: **15756017**

Issue **3**
Sample **2** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
Sample Point Description:
Sample Description: **SW12**
Sample Matrix: **Surface Water**
Sample Date/Time: **14 December 2016**
Sample Received: **15 December 2016**
Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	03/01/2017	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	03/01/2017	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	03/01/2017	Y S	SUBCON
Styrene	<0.20	ug/l	03/01/2017	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	03/01/2017	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	03/01/2017	Y S	SUBCON
Toluene	<0.50	ug/l	03/01/2017	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	03/01/2017	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	03/01/2017	Y S	SUBCON
Trichloroethene	<0.10	ug/l	03/01/2017	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	03/01/2017	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	03/01/2017	Y S	SUBCON

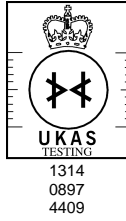
Analyst Comments for 15756017:

This sample has been analysed for Pesticides method GEO47, pH, BOD + ATU (5 day), Aluminium, Total as Al, Magnesium, Total as Mg, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba, Copper, ultra-low total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised. GEO40 SVOC Waters: See attached SVOC-TIC Report.
{/*}The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-feric ratio between sampling and analysis.
The sample for Sulphide was received in a container inappropriate for this parameter. It is therefore possible that the results provided may be compromised.{/*}
Reporting limits raised for PAH due to nature of sample matrix. This sample was re-analysed for PAH outside recommended stability times due to quality failure on the original sample. It is therefore possible that the results provided could be compromised.

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.
Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).
For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).
I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: *A I Horobin* Name: **A. Horobin** Date: **17 January 2017**
Title: **Organic Operations Manager**

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Report Number: **COV/1346206/2016**

Issue **3**

Laboratory Number: **15756018**

Sample **3** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW02**

Sample Matrix: **Ground Water**

Sample Date/Time: **14 December 2016**

Sample Received: **15 December 2016**

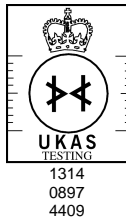
Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	<0.5	mg/l	29/12/2016	N Cov	WAS043
Nitrate as NO3	26.9	mg/l	16/12/2016	N Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	03/01/2017	Y Cov	WAS060
Selenium Ultra Low Total as Se	0.0008	mg/l	03/01/2017	Y Cov	WAS060
Arsenic, Ultra Low Total as As	0.0022	mg/l	03/01/2017	Y Cov	WAS060
Fluoride	0.066	mg/l	22/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	03/01/2017	Y S	SUBCON
Chloroethane	<1.0	ug/l	03/01/2017	Y S	SUBCON
Aluminium, Total as Al	1.2	mg/l	30/12/2016	Y Cov	WAS049
Barium, Total as Ba	0.034	mg/l	30/12/2016	Y Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	30/12/2016	Y Cov	WAS049
Boron, Total as B	0.26	mg/l	30/12/2016	Y Cov	WAS049
Cadmium , Total as Cd	0.0008	mg/l	30/12/2016	Y Cov	WAS049
Calcium , Total as Ca	155	mg/l	30/12/2016	Y Cov	WAS049
Chromium , Total as Cr	0.002	mg/l	30/12/2016	Y Cov	WAS049
Copper, Ultra-low Total as Cu	6.5	ug/l	03/01/2017	Y Cov	WAS060
Iron , Total as Fe	1.89	mg/l	30/12/2016	Y Cov	WAS049
Ferrous Iron	<0.5	mg/l	29/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	29/12/2016	N Cov	WAS043
Lead , Total as Pb	0.008	mg/l	30/12/2016	Y Cov	WAS049
Magnesium, Total as Mg	10.0	mg/l	30/12/2016	Y Cov	WAS049
Manganese , Total as Mn	0.199	mg/l	30/12/2016	Y Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	28/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.010	mg/l	30/12/2016	Y Cov	WAS049
Potassium , Total as K	1.74	mg/l	30/12/2016	Y Cov	WAS049
Sodium , Total as Na	11.2	mg/l	30/12/2016	Y Cov	WAS049
Vanadium , Total as V	0.004	mg/l	30/12/2016	Y Cov	WAS049
Zinc, Total as Zn	0.03	mg/l	30/12/2016	Y Cov	WAS049
pH	7.2	pH units	16/12/2016	Y Cov	WAS039
Conductivity- Electrical 20C	717	uS/cm	16/12/2016	Y Cov	WAS039
Alkalinity as CaCO3	399	mg/l	16/12/2016	Y Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	19/12/2016	Y Cov	WAS067

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Report Number: **COV/1346206/2016**

Issue **3**

Laboratory Number: **15756018**

Sample **3** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW02**

Sample Matrix: **Ground Water**

Sample Date/Time: **14 December 2016**

Sample Received: **15 December 2016**

Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	7.6	mg/l	16/12/2016	N Cov	WAS036
Nitrite as N	<0.08	mg/l	16/12/2016	N Cov	WAS036
Phosphates , Total as P	0.26	mg/l	30/12/2016	Y Cov	WAS049
Sulphate as SO4	32.2	mg/l	16/12/2016	N Cov	WAS036
BOD + ATU (5 day)	<1	mg/l	26/12/2016	Y Cov	WAS001
COD (Total)	36.0	mg/l	20/12/2016	Y Cov	WAS040
TOC (Filtered)	2.1	mg/l	19/12/2016	Y Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	19/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	19/12/2016	N Cov	WAS018
Sulphide as S	0.107	mg/l	30/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	21/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	10/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	10/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	10/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	23/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	10/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	10/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	10/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	10/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	10/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	10/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	10/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	10/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	10/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	10/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	10/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	10/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	10/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	10/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	10/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	10/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	10/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	10/01/2017	Y Cov	GEO47

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Report Number: **COV/1346206/2016**

Issue **3**

Laboratory Number: **15756018**

Sample **3** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW02**

Sample Matrix: **Ground Water**

Sample Date/Time: **14 December 2016**

Sample Received: **15 December 2016**

Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	17/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	10/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	10/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	10/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	10/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	10/01/2017	Y Cov	GEO47
Azinphos-ethyl	<0.004	ug/l	17/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	10/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	10/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	10/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	10/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	17/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	17/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	10/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	28/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	28/12/2016	Y Cov	GEO20

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Report Number: **COV/1346206/2016**

Issue **3**

Laboratory Number: **15756018**

Sample **3** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW02**

Sample Matrix: **Ground Water**

Sample Date/Time: **14 December 2016**

Sample Received: **15 December 2016**

Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	28/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	28/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	28/12/2016	Y Cov	GEO20
Mecoprop	<0.04	ug/l	28/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	23/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	23/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	23/12/2016	N Cov	338
Naphthol	<0.10	ug/l	23/12/2016	N Cov	338
Phenol	<0.10	ug/l	23/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	23/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	23/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	21/12/2016	N Cov	GEO46

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 Laboratory Number: **15756018**

Issue **3**
 Sample **3** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW02**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **14 December 2016**
 Sample Received: **15 December 2016**
 Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	<10	ug/l	22/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	<10	ug/l	22/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	<10	ug/l	22/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Anthracene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Chrysene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Fluoranthene	0.040	ug/l	09/01/2017	Y Cov	GEO19
Fluorene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Naphthalene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Phenanthrene	0.013	ug/l	09/01/2017	Y Cov	GEO19
Pyrene	0.016	ug/l	09/01/2017	Y Cov	GEO19
PAH, Total	0.070	ug/l	09/01/2017	N Cov	GEO19
SVOC	Y	ug/l	22/12/2016	N Cov	GEO40
Phenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Chlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Methylphenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
3&4-Methylphenol	<1.0	ug/l	22/12/2016	N Cov	GEO40
Dibenzofuran	<1.0	ug/l	22/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40

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Report Number: **COV/1346206/2016**

Issue **3**

Laboratory Number: **15756018**

Sample **3** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW02**

Sample Matrix: **Ground Water**

Sample Date/Time: **14 December 2016**

Sample Received: **15 December 2016**

Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<1.0	ug/l	22/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Hexachloroethane	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Nitrobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Isophorone	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Nitrophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Naphthalene	<2.0	ug/l	22/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Dimethylphthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Acenaphthylene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Acenaphthene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Diethylphthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40
4-Nitrophenol	<5.0	ug/l	22/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Fluorene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Diphenylamine	<1.0	ug/l	22/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Hexachlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Pentachlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Phenanthrene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Anthracene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40

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Report Number: **COV/1346206/2016**

Issue **3**

Laboratory Number: **15756018**

Sample **3** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW02**

Sample Matrix: **Ground Water**

Sample Date/Time: **14 December 2016**

Sample Received: **15 December 2016**

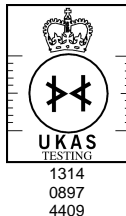
Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Pyrene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Chrysene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<5.0	ug/l	22/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Fluorophenol	68.8	%Recovery	22/12/2016	N Cov	GEO40
Phenol-d6	59.2	%Recovery	22/12/2016	N Cov	GEO40
Nitrobenzene-d5	75.2	%Recovery	22/12/2016	N Cov	GEO40
2-Fluorobiphenyl	77.6	%Recovery	22/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	81.2	%Recovery	22/12/2016	N Cov	GEO40
Terphenyl-d14	96.2	%Recovery	22/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	22/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	28/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	03/01/2017	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	03/01/2017	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	03/01/2017	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	03/01/2017	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	03/01/2017	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	03/01/2017	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	03/01/2017	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	03/01/2017	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	03/01/2017	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	03/01/2017	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	03/01/2017	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	03/01/2017	Y S	SUBCON

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Report Number: **COV/1346206/2016**

Issue **3**

Laboratory Number: **15756018**

Sample **3** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW02**

Sample Matrix: **Ground Water**

Sample Date/Time: **14 December 2016**

Sample Received: **15 December 2016**

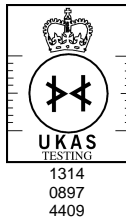
Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	03/01/2017	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	03/01/2017	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	03/01/2017	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	03/01/2017	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	03/01/2017	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	03/01/2017	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	03/01/2017	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	03/01/2017	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	03/01/2017	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	03/01/2017	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	03/01/2017	Y S	SUBCON
Benzene	<0.20	ug/l	03/01/2017	Y S	SUBCON
Bromobenzene	<1.0	ug/l	03/01/2017	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	03/01/2017	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	03/01/2017	Y S	SUBCON
Bromoform	0.39	ug/l	03/01/2017	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	03/01/2017	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	03/01/2017	Y S	SUBCON
Chloroform	<0.10	ug/l	03/01/2017	Y S	SUBCON
Chloromethane	<1.0	ug/l	03/01/2017	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	03/01/2017	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	03/01/2017	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	03/01/2017	Y S	SUBCON
Dibromomethane	<1.0	ug/l	03/01/2017	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	03/01/2017	Y S	SUBCON
Dichloromethane	11.7	ug/l	03/01/2017	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	03/01/2017	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	03/01/2017	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	03/01/2017	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	03/01/2017	Y S	SUBCON
Naphthalene	<1.0	ug/l	03/01/2017	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	03/01/2017	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	03/01/2017	Y S	SUBCON

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Report Number: **COV/1346206/2016**

Issue **3**

Laboratory Number: **15756018**

Sample **3** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW02**

Sample Matrix: **Ground Water**

Sample Date/Time: **14 December 2016**

Sample Received: **15 December 2016**

Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	03/01/2017	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	03/01/2017	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	03/01/2017	Y S	SUBCON
Styrene	<0.20	ug/l	03/01/2017	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	03/01/2017	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	03/01/2017	Y S	SUBCON
Toluene	<0.50	ug/l	03/01/2017	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	03/01/2017	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	03/01/2017	Y S	SUBCON
Trichloroethene	<0.10	ug/l	03/01/2017	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	03/01/2017	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	03/01/2017	Y S	SUBCON

Analyst Comments for 15756018:

This sample has been analysed for Pesticides method GEO47, pH, BOD + ATU (5 day), Aluminium, Total as Al, Magnesium, Total as Mg, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba, Copper, ultra-low total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised. GEO40 SVOC Waters: See attached SVOC-TIC Report.
{/*}The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis.
The sample for Sulphide was received in a container inappropriate for this parameter. It is therefore possible that the results provided may be compromised.{*/}

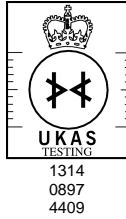
Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.
Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).
For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).
I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: <i>A I Horobin</i>	Name: A. Horobin	Date: 17 January 2017
	Title: Organic Operations Manager	

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Report Number: **COV/1346206/2016**

Issue **3**

Laboratory Number: **15756019**

Sample **4** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW04**

Sample Matrix: **Ground Water**

Sample Date/Time: **14 December 2016**

Sample Received: **15 December 2016**

Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	<0.5	mg/l	29/12/2016	N Cov	WAS043
Nitrate as NO3	129	mg/l	16/12/2016	N Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	03/01/2017	Y Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	03/01/2017	Y Cov	WAS060
Arsenic, Ultra Low Total as As	0.0025	mg/l	03/01/2017	Y Cov	WAS060
Fluoride	<0.100	mg/l	22/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
Chloroethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
Aluminium, Total as Al	0.8	mg/l	30/12/2016	Y Cov	WAS049
Barium, Total as Ba	0.148	mg/l	30/12/2016	Y Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	30/12/2016	Y Cov	WAS049
Boron, Total as B	0.84	mg/l	30/12/2016	Y Cov	WAS049
Cadmium , Total as Cd	0.0012	mg/l	30/12/2016	Y Cov	WAS049
Calcium , Total as Ca	239	mg/l	30/12/2016	Y Cov	WAS049
Chromium , Total as Cr	0.002	mg/l	30/12/2016	Y Cov	WAS049
Copper, Ultra-low Total as Cu	9.3	ug/l	03/01/2017	Y Cov	WAS060
Iron , Total as Fe	1.81	mg/l	30/12/2016	Y Cov	WAS049
Ferrous Iron	<0.5	mg/l	29/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	29/12/2016	N Cov	WAS043
Lead , Total as Pb	0.008	mg/l	30/12/2016	Y Cov	WAS049
Magnesium, Total as Mg	33.5	mg/l	30/12/2016	Y Cov	WAS049
Manganese , Total as Mn	0.427	mg/l	30/12/2016	Y Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	28/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.021	mg/l	30/12/2016	Y Cov	WAS049
Potassium , Total as K	15.3	mg/l	30/12/2016	Y Cov	WAS049
Sodium , Total as Na	45.0	mg/l	30/12/2016	Y Cov	WAS049
Vanadium , Total as V	<0.004	mg/l	30/12/2016	Y Cov	WAS049
Zinc, Total as Zn	0.04	mg/l	30/12/2016	Y Cov	WAS049
pH	7.0	pH units	16/12/2016	Y Cov	WAS039
Conductivity- Electrical 20C	1370	uS/cm	16/12/2016	Y Cov	WAS039
Alkalinity as CaCO3	626	mg/l	16/12/2016	Y Cov	WAS025
Ammoniacal Nitrogen as N (LL)	0.27	mg/l	19/12/2016	Y Cov	WAS067

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Report Number: **COV/1346206/2016**

Issue **3**

Laboratory Number: **15756019**

Sample **4** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW04**

Sample Matrix: **Ground Water**

Sample Date/Time: **14 December 2016**

Sample Received: **15 December 2016**

Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	40.5	mg/l	16/12/2016	N Cov	WAS036
Nitrite as N	<0.08	mg/l	16/12/2016	N Cov	WAS036
Phosphates , Total as P	0.28	mg/l	30/12/2016	Y Cov	WAS049
Sulphate as SO4	135	mg/l	16/12/2016	N Cov	WAS036
BOD + ATU (5 day)	<1	mg/l	26/12/2016	Y Cov	WAS001
COD (Total)	57.0	mg/l	20/12/2016	Y Cov	WAS040
TOC (Filtered)	10.8	mg/l	19/12/2016	Y Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	19/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	19/12/2016	N Cov	WAS018
Sulphide as S	0.103	mg/l	30/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	21/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	10/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	10/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	10/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	23/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	10/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	10/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	10/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	10/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	10/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	10/01/2017	Y Cov	GEO47
Dichlobenil	2	ng/l	10/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	10/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	10/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	10/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	10/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	10/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	10/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	10/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	10/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	10/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	10/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	10/01/2017	Y Cov	GEO47

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Report Number: **COV/1346206/2016**

Issue **3**

Laboratory Number: **15756019**

Sample **4** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW04**

Sample Matrix: **Ground Water**

Sample Date/Time: **14 December 2016**

Sample Received: **15 December 2016**

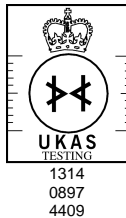
Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	17/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	10/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	10/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	10/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	10/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	10/01/2017	Y Cov	GEO47
Azinphos-ethyl	<0.004	ug/l	17/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	10/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	10/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	10/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	10/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	17/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	17/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	10/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	30/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	30/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	30/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	30/12/2016	Y Cov	GEO20

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Report Number: **COV/1346206/2016**
 Laboratory Number: **15756019**

Issue **3**
 Sample **4** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW04**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **14 December 2016**
 Sample Received: **15 December 2016**
 Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	30/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	30/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Mecoprop	0.40	ug/l	30/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	23/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	23/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	23/12/2016	N Cov	338
Naphthol	<0.10	ug/l	23/12/2016	N Cov	338
Phenol	<0.10	ug/l	23/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	23/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	23/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	21/12/2016	N Cov	GEO46

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Issue **3**

Laboratory Number: **15756019**

Sample **4** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW04**

Sample Matrix: **Ground Water**

Sample Date/Time: **14 December 2016**

Sample Received: **15 December 2016**

Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	<10	ug/l	22/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	<10	ug/l	22/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	<10	ug/l	22/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Anthracene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Chrysene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Fluoranthene	0.020	ug/l	09/01/2017	Y Cov	GEO19
Fluorene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Naphthalene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Phenanthrene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Pyrene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
PAH, Total	0.020	ug/l	09/01/2017	N Cov	GEO19
SVOC	Y	ug/l	22/12/2016	N Cov	GEO40
Phenol	4.3	ug/l	22/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Chlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Methylphenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
3&4-Methylphenol	<1.0	ug/l	22/12/2016	N Cov	GEO40
Dibenzofuran	<1.0	ug/l	22/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40

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Issue **3**

Laboratory Number: **15756019**

Sample **4** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW04**

Sample Matrix: **Ground Water**

Sample Date/Time: **14 December 2016**

Sample Received: **15 December 2016**

Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<1.0	ug/l	22/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Hexachloroethane	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Nitrobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Isophorone	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Nitrophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Naphthalene	<2.0	ug/l	22/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Dimethylphthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Acenaphthylene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Acenaphthene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Diethylphthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40
4-Nitrophenol	<5.0	ug/l	22/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Fluorene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Diphenylamine	<1.0	ug/l	22/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Hexachlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Pentachlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Phenanthrene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Anthracene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40

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 Laboratory Number: **15756019**

Issue **3**
 Sample **4** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW04**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **14 December 2016**
 Sample Received: **15 December 2016**
 Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Pyrene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Chrysene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<5.0	ug/l	22/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Fluorophenol	72.1	%Recovery	22/12/2016	N Cov	GEO40
Phenol-d6	61.2	%Recovery	22/12/2016	N Cov	GEO40
Nitrobenzene-d5	77.0	%Recovery	22/12/2016	N Cov	GEO40
2-Fluorobiphenyl	79.5	%Recovery	22/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	85.0	%Recovery	22/12/2016	N Cov	GEO40
Terphenyl-d14	97.6	%Recovery	22/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	22/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	30/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	02/01/2017	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	02/01/2017	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	02/01/2017	Y S	SUBCON

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Report Number: **COV/1346206/2016**

Issue **3**

Laboratory Number: **15756019**

Sample **4** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW04**

Sample Matrix: **Ground Water**

Sample Date/Time: **14 December 2016**

Sample Received: **15 December 2016**

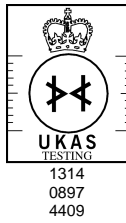
Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	02/01/2017	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	02/01/2017	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	02/01/2017	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	02/01/2017	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Benzene	<0.20	ug/l	02/01/2017	Y S	SUBCON
Bromobenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	02/01/2017	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	02/01/2017	Y S	SUBCON
Bromoform	<0.20	ug/l	02/01/2017	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	02/01/2017	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
Chloroform	<0.10	ug/l	02/01/2017	Y S	SUBCON
Chloromethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	02/01/2017	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	02/01/2017	Y S	SUBCON
Dibromomethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
Dichloromethane	<6.0	ug/l	02/01/2017	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	02/01/2017	Y S	SUBCON
Naphthalene	<1.0	ug/l	02/01/2017	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON

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Report Number: **COV/1346206/2016**

Issue **3**

Laboratory Number: **15756019**

Sample **4** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW04**

Sample Matrix: **Ground Water**

Sample Date/Time: **14 December 2016**

Sample Received: **15 December 2016**

Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	02/01/2017	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	02/01/2017	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Styrene	<0.20	ug/l	02/01/2017	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	02/01/2017	Y S	SUBCON
Toluene	<0.50	ug/l	02/01/2017	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	02/01/2017	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Trichloroethene	<0.10	ug/l	02/01/2017	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	02/01/2017	Y S	SUBCON

Analyst Comments for 15756019:

This sample has been analysed for Acid Herbs Waters method GEO20, Pesticides method GEO47, pH, BOD + ATU (5 day), Aluminium, Total as Al, Magnesium, Total as Mg, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba, Copper, ultra-low total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised. GEO40 SVOC Waters: See attached SVOC-TIC Report.

The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis.

The sample for Sulphide was received in a container inappropriate for this parameter. It is therefore possible that the results provided may be compromised.

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: *A I Horobin*

Name: **A. Horobin**

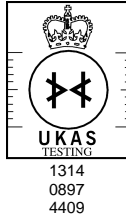
Date: **17 January 2017**

Title: **Organic Operations Manager**

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Report Number: **COV/1346206/2016**

Issue **3**

Laboratory Number: **15756020**

Sample **5** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH36B**

Sample Matrix: **Ground Water**

Sample Date/Time: **14 December 2016**

Sample Received: **15 December 2016**

Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	2.2	mg/l	29/12/2016	N Cov	WAS043
Nitrate as NO3	<3.1	mg/l	16/12/2016	N Cov	WAS036
Antimony Ultra Low Total as Sb	0.0013	mg/l	03/01/2017	Y Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	03/01/2017	Y Cov	WAS060
Arsenic, Ultra Low Total as As	0.023	mg/l	03/01/2017	Y Cov	WAS060
Fluoride	0.296	mg/l	22/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
Chloroethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
Aluminium, Total as Al	2.3	mg/l	30/12/2016	Y Cov	WAS049
Barium, Total as Ba	0.330	mg/l	30/12/2016	Y Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	30/12/2016	Y Cov	WAS049
Boron, Total as B	<0.23	mg/l	30/12/2016	Y Cov	WAS049
Cadmium , Total as Cd	0.0027	mg/l	30/12/2016	Y Cov	WAS049
Calcium , Total as Ca	185	mg/l	30/12/2016	Y Cov	WAS049
Chromium , Total as Cr	0.006	mg/l	30/12/2016	Y Cov	WAS049
Copper, Ultra-low Total as Cu	38	ug/l	03/01/2017	Y Cov	WAS060
Iron , Total as Fe	7.54	mg/l	30/12/2016	Y Cov	WAS049
Ferrous Iron	0.7	mg/l	29/12/2016	N Cov	WAS043
Ferric Iron	1.5	mg/l	29/12/2016	N Cov	WAS043
Lead , Total as Pb	0.023	mg/l	30/12/2016	Y Cov	WAS049
Magnesium, Total as Mg	18.9	mg/l	30/12/2016	Y Cov	WAS049
Manganese , Total as Mn	2.94	mg/l	30/12/2016	Y Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	28/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.037	mg/l	30/12/2016	Y Cov	WAS049
Potassium , Total as K	4.85	mg/l	30/12/2016	Y Cov	WAS049
Sodium , Total as Na	38.4	mg/l	30/12/2016	Y Cov	WAS049
Vanadium , Total as V	0.009	mg/l	30/12/2016	Y Cov	WAS049
Zinc, Total as Zn	0.08	mg/l	30/12/2016	Y Cov	WAS049
pH	7.1	pH units	16/12/2016	Y Cov	WAS039
Conductivity- Electrical 20C	1040	uS/cm	16/12/2016	Y Cov	WAS039
Alkalinity as CaCO3	419	mg/l	16/12/2016	Y Cov	WAS025
Ammoniacal Nitrogen as N (LL)	1.65	mg/l	19/12/2016	Y Cov	WAS067

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Report Number: **COV/1346206/2016**

Issue **3**

Laboratory Number: **15756020**

Sample **5** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH36B**

Sample Matrix: **Ground Water**

Sample Date/Time: **14 December 2016**

Sample Received: **15 December 2016**

Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	139	mg/l	16/12/2016	N Cov	WAS036
Nitrite as N	<0.08	mg/l	16/12/2016	N Cov	WAS036
Phosphates , Total as P	0.44	mg/l	30/12/2016	Y Cov	WAS049
Sulphate as SO4	25.6	mg/l	16/12/2016	N Cov	WAS036
BOD + ATU (5 day)	2	mg/l	26/12/2016	Y Cov	WAS001
COD (Total)	110	mg/l	20/12/2016	Y Cov	WAS040
TOC (Filtered)	12.7	mg/l	19/12/2016	Y Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	19/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	19/12/2016	N Cov	WAS018
Sulphide as S	0.274	mg/l	30/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	21/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	10/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	10/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	10/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	23/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	10/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	10/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	10/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	10/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	10/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	10/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	10/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	10/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	10/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	10/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	10/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	10/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	10/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	10/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	10/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	10/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	10/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	10/01/2017	Y Cov	GEO47

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Issue **3**

Laboratory Number: **15756020**

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Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH36B**

Sample Matrix: **Ground Water**

Sample Date/Time: **14 December 2016**

Sample Received: **15 December 2016**

Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	17/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	10/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	10/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	10/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	10/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	10/01/2017	Y Cov	GEO47
Azinphos-ethyl	<0.004	ug/l	17/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	10/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	10/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	10/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	10/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	17/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	17/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	10/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	05/01/2017	Y Cov	GEO20
2,4 - D	<0.05	ug/l	05/01/2017	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	05/01/2017	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	05/01/2017	Y Cov	GEO20
Benazolin	<0.05	ug/l	05/01/2017	Y Cov	GEO20
Bentazone	<0.05	ug/l	05/01/2017	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	05/01/2017	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	05/01/2017	Y Cov	GEO20

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Laboratory Number: **15756020**

Sample **5** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH36B**

Sample Matrix: **Ground Water**

Sample Date/Time: **14 December 2016**

Sample Received: **15 December 2016**

Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	05/01/2017	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	05/01/2017	Y Cov	GEO20
Fenoprop	<0.05	ug/l	05/01/2017	Y Cov	GEO20
Ioxynil	<0.05	ug/l	05/01/2017	Y Cov	GEO20
MCPA	<0.05	ug/l	05/01/2017	Y Cov	GEO20
MCPB	<0.05	ug/l	05/01/2017	Y Cov	GEO20
Triclopyr	<0.05	ug/l	05/01/2017	Y Cov	GEO20
Mecoprop	0.25	ug/l	05/01/2017	Y Cov	GEO20
Catechol	<0.10	ug/l	23/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	23/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	23/12/2016	N Cov	338
Naphthol	<0.10	ug/l	23/12/2016	N Cov	338
Phenol	<0.10	ug/l	23/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	23/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	23/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	23/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	23/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	23/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	23/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	23/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	23/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	23/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	23/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	23/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	21/12/2016	N Cov	GEO46

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 Laboratory Number: **15756020**

Issue **3**
 Sample **5** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **BH36B**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **14 December 2016**
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 Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	<10	ug/l	23/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	<10	ug/l	23/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	<10	ug/l	23/12/2016	N Cov	GEO45/GEO4
Acenaphthene	0.037	ug/l	09/01/2017	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Anthracene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Chrysene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Fluoranthene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Fluorene	0.022	ug/l	09/01/2017	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Naphthalene	0.363	ug/l	09/01/2017	Y Cov	GEO19
Phenanthrene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
Pyrene	<0.01	ug/l	09/01/2017	Y Cov	GEO19
PAH, Total	0.422	ug/l	09/01/2017	N Cov	GEO19
SVOC	Y	ug/l	22/12/2016	N Cov	GEO40
Phenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Chlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Methylphenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
3&4-Methylphenol	<1.0	ug/l	22/12/2016	N Cov	GEO40
Dibenzofuran	<1.0	ug/l	22/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40

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Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
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Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<1.0	ug/l	22/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Hexachloroethane	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Nitrobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Isophorone	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Nitrophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Naphthalene	<2.0	ug/l	22/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Dimethylphthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Acenaphthylene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Acenaphthene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Diethylphthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40
4-Nitrophenol	<5.0	ug/l	22/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Fluorene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Diphenylamine	<1.0	ug/l	22/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Hexachlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Pentachlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Phenanthrene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Anthracene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40

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Sample Point Description:

Sample Description: **BH36B**

Sample Matrix: **Ground Water**

Sample Date/Time: **14 December 2016**

Sample Received: **15 December 2016**

Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Pyrene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Chrysene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<5.0	ug/l	22/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Fluorophenol	81.7	%Recovery	22/12/2016	N Cov	GEO40
Phenol-d6	71.7	%Recovery	22/12/2016	N Cov	GEO40
Nitrobenzene-d5	86.6	%Recovery	22/12/2016	N Cov	GEO40
2-Fluorobiphenyl	88.4	%Recovery	22/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	88.3	%Recovery	22/12/2016	N Cov	GEO40
Terphenyl-d14	95.6	%Recovery	22/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	22/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	05/01/2017	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	02/01/2017	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	02/01/2017	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	02/01/2017	Y S	SUBCON

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Sample **5** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH36B**

Sample Matrix: **Ground Water**

Sample Date/Time: **14 December 2016**

Sample Received: **15 December 2016**

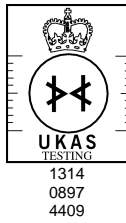
Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	02/01/2017	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	02/01/2017	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	02/01/2017	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	02/01/2017	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Benzene	<0.20	ug/l	02/01/2017	Y S	SUBCON
Bromobenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	02/01/2017	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	02/01/2017	Y S	SUBCON
Bromoform	<0.20	ug/l	02/01/2017	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	02/01/2017	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
Chloroform	<0.10	ug/l	02/01/2017	Y S	SUBCON
Chloromethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	02/01/2017	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	02/01/2017	Y S	SUBCON
Dibromomethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
Dichloromethane	<6.0	ug/l	02/01/2017	Y S	SUBCON
Ethyl Benzene	0.16	ug/l	02/01/2017	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
m&p-Xylene	0.22	ug/l	02/01/2017	Y S	SUBCON
Naphthalene	<1.0	ug/l	02/01/2017	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON

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Report Number: **COV/1346206/2016**
Laboratory Number: **15756020**

Issue **3**
Sample **5** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
Sample Point Description:
Sample Description: **BH36B**
Sample Matrix: **Ground Water**
Sample Date/Time: **14 December 2016**
Sample Received: **15 December 2016**
Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	02/01/2017	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	02/01/2017	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Styrene	<0.20	ug/l	02/01/2017	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	02/01/2017	Y S	SUBCON
Toluene	<0.50	ug/l	02/01/2017	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	02/01/2017	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Trichloroethene	<0.10	ug/l	02/01/2017	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	02/01/2017	Y S	SUBCON

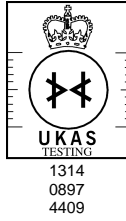
Analyst Comments for 15756020:

This sample has been analysed for Acid Herbs Waters method GEO20, Pesticides method GEO47, pH, BOD + ATU (5 day), Aluminium, Total as Al, Magnesium, Total as Mg, Sodium Total as Na, Boron, Total as B, Barium, Total as Ba, Copper, ultra-low total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised. See attached SVOC-TIC Report.
GEO45 VPH Waters: Low surrogate recovery due to sample matrix interference.
The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis.
The sample for Sulphide was received in a container inappropriate for this parameter. It is therefore possible that the results provided may be compromised.

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.
Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).
For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).
I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: *A I Horobin*
Name: **A. Horobin** Date: **17 January 2017**
Title: **Organic Operations Manager**

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Report Number: **COV/1346206/2016**

Issue **3**

Laboratory Number: **15756021**

Sample **6** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **GWID**

Sample Matrix: **Ground Water**

Sample Date/Time: **14 December 2016**

Sample Received: **15 December 2016**

Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	<0.5	mg/l	29/12/2016	N Cov	WAS043
Nitrate as NO3	4.5	mg/l	21/12/2016	N Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	03/01/2017	Y Cov	WAS060
Selenium Ultra Low Total as Se	0.0010	mg/l	03/01/2017	Y Cov	WAS060
Arsenic, Ultra Low Total as As	<0.0010	mg/l	03/01/2017	Y Cov	WAS060
Fluoride	0.158	mg/l	22/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
Chloroethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
Aluminium, Total as Al	<0.1	mg/l	30/12/2016	Y Cov	WAS049
Barium, Total as Ba	0.096	mg/l	30/12/2016	Y Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	30/12/2016	Y Cov	WAS049
Boron, Total as B	<0.23	mg/l	30/12/2016	Y Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	30/12/2016	Y Cov	WAS049
Calcium , Total as Ca	145	mg/l	30/12/2016	Y Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	30/12/2016	Y Cov	WAS049
Copper, Ultra-low Total as Cu	2.2	ug/l	03/01/2017	Y Cov	WAS060
Iron , Total as Fe	<0.23	mg/l	30/12/2016	Y Cov	WAS049
Ferrous Iron	<0.5	mg/l	29/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	29/12/2016	N Cov	WAS043
Lead , Total as Pb	<0.006	mg/l	30/12/2016	Y Cov	WAS049
Magnesium, Total as Mg	21.0	mg/l	30/12/2016	Y Cov	WAS049
Manganese , Total as Mn	0.060	mg/l	30/12/2016	Y Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	28/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.005	mg/l	30/12/2016	Y Cov	WAS049
Potassium , Total as K	1.81	mg/l	30/12/2016	Y Cov	WAS049
Sodium , Total as Na	14.2	mg/l	30/12/2016	Y Cov	WAS049
Vanadium , Total as V	<0.004	mg/l	30/12/2016	Y Cov	WAS049
Zinc, Total as Zn	<0.018	mg/l	30/12/2016	Y Cov	WAS049
pH	7.6	pH units	16/12/2016	Y Cov	WAS039
Conductivity- Electrical 20C	759	uS/cm	16/12/2016	Y Cov	WAS039
Alkalinity as CaCO3	327	mg/l	16/12/2016	Y Cov	WAS025
Ammoniacal Nitrogen as N (LL)	<0.06	mg/l	19/12/2016	Y Cov	WAS067

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Report Number: **COV/1346206/2016**

Issue **3**

Laboratory Number: **15756021**

Sample **6** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **GWID**

Sample Matrix: **Ground Water**

Sample Date/Time: **14 December 2016**

Sample Received: **15 December 2016**

Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	170	mg/l	17/12/2016	N Cov	WAS036
Nitrite as N	<0.08	mg/l	17/12/2016	N Cov	WAS036
Phosphates , Total as P	<0.120	mg/l	30/12/2016	Y Cov	WAS049
Sulphate as SO4	108	mg/l	17/12/2016	N Cov	WAS036
BOD + ATU (5 day)	<1	mg/l	26/12/2016	Y Cov	WAS001
COD (Total)	<11.0	mg/l	29/12/2016	Y Cov	WAS040
TOC (Filtered)	0.8	mg/l	19/12/2016	Y Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	19/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	19/12/2016	N Cov	WAS018
Sulphide as S	<0.020	mg/l	30/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	21/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	10/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	10/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	10/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	23/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	10/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	10/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	10/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	10/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	10/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	10/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	10/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	10/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	10/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	10/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	10/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	10/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	10/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	10/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	10/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	10/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	10/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	10/01/2017	Y Cov	GEO47

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Report Number: **COV/1346206/2016**
 Laboratory Number: **15756021**

Issue **3**
 Sample **6** of **6**

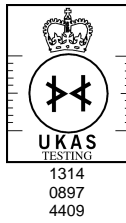
Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **GWID**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **14 December 2016**
 Sample Received: **15 December 2016**
 Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	17/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	10/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	10/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	10/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	10/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	10/01/2017	Y Cov	GEO47
Azinphos-ethyl	<0.004	ug/l	17/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	10/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	10/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	10/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	10/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	10/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	17/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	17/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	10/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	10/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	30/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	30/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	30/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	30/12/2016	Y Cov	GEO20

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Report Number: **COV/1346206/2016**
 Laboratory Number: **15756021**

Issue **3**
 Sample **6** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **GWID**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **14 December 2016**
 Sample Received: **15 December 2016**
 Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	30/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	30/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Mecoprop	<0.04	ug/l	30/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	23/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	23/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	23/12/2016	N Cov	338
Naphthol	<0.10	ug/l	23/12/2016	N Cov	338
Phenol	<0.10	ug/l	23/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	23/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	23/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	21/12/2016	N Cov	GEO46

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Report Number: **COV/1346206/2016**
 Laboratory Number: **15756021**

Issue **3**
 Sample **6** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **GWID**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **14 December 2016**
 Sample Received: **15 December 2016**
 Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	21/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	<10	ug/l	22/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	<10	ug/l	22/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	<10	ug/l	22/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Anthracene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Chrysene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Fluoranthene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Fluorene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Naphthalene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Phenanthrene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Pyrene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
PAH, Total	<0.01	ug/l	17/01/2017	N Cov	GEO19
SVOC	Y	ug/l	22/12/2016	N Cov	GEO40
Phenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Chlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Methylphenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
3&4-Methylphenol	<1.0	ug/l	22/12/2016	N Cov	GEO40
Dibenzofuran	<1.0	ug/l	22/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40

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Report Number: **COV/1346206/2016**
 Laboratory Number: **15756021**

Issue **3**
 Sample **6** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **GWID**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **14 December 2016**
 Sample Received: **15 December 2016**
 Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<1.0	ug/l	22/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Hexachloroethane	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Nitrobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Isophorone	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Nitrophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Naphthalene	<2.0	ug/l	22/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Dimethylphthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Acenaphthylene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Acenaphthene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Diethylphthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40
4-Nitrophenol	<5.0	ug/l	22/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Fluorene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Diphenylamine	<1.0	ug/l	22/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Hexachlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Pentachlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Phenanthrene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Anthracene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40

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Report Number: **COV/1346206/2016**
 Laboratory Number: **15756021**

Issue **3**
 Sample **6** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **GWID**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **14 December 2016**
 Sample Received: **15 December 2016**
 Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Pyrene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Chrysene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<5.0	ug/l	22/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Fluorophenol	77.8	%Recovery	22/12/2016	N Cov	GEO40
Phenol-d6	63.4	%Recovery	22/12/2016	N Cov	GEO40
Nitrobenzene-d5	84.1	%Recovery	22/12/2016	N Cov	GEO40
2-Fluorobiphenyl	86.2	%Recovery	22/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	69.9	%Recovery	22/12/2016	N Cov	GEO40
Terphenyl-d14	89.3	%Recovery	22/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	22/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	30/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	02/01/2017	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	02/01/2017	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	02/01/2017	Y S	SUBCON

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Report Number: **COV/1346206/2016**

Issue **3**

Laboratory Number: **15756021**

Sample **6** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **GWID**

Sample Matrix: **Ground Water**

Sample Date/Time: **14 December 2016**

Sample Received: **15 December 2016**

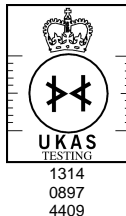
Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	02/01/2017	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	02/01/2017	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	02/01/2017	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	02/01/2017	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Benzene	<0.20	ug/l	02/01/2017	Y S	SUBCON
Bromobenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	02/01/2017	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	02/01/2017	Y S	SUBCON
Bromoform	<0.20	ug/l	02/01/2017	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	02/01/2017	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
Chloroform	<0.10	ug/l	02/01/2017	Y S	SUBCON
Chloromethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	02/01/2017	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	02/01/2017	Y S	SUBCON
Dibromomethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
Dichloromethane	9.3	ug/l	02/01/2017	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	02/01/2017	Y S	SUBCON
Naphthalene	<1.0	ug/l	02/01/2017	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON

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Report Number: **COV/1346206/2016**

Issue **3**

Laboratory Number: **15756021**

Sample **6** of **6**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **GWID**

Sample Matrix: **Ground Water**

Sample Date/Time: **14 December 2016**

Sample Received: **15 December 2016**

Analysis Complete: **17 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	02/01/2017	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	02/01/2017	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Styrene	<0.20	ug/l	02/01/2017	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	02/01/2017	Y S	SUBCON
Toluene	<0.50	ug/l	02/01/2017	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	02/01/2017	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Trichloroethene	<0.10	ug/l	02/01/2017	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	02/01/2017	Y S	SUBCON

Analyst Comments for 15756021:

This sample has been analysed for Acid Herbs Waters method GEO20, Pesticides method GEO47, pH, BOD + ATU (5 day), Aluminium, Total as Al, Magnesium, Total as Mg, Sodium Total as Na, COD (Total), Boron, Total as B, Barium, Total as Ba, Nitrate as NO₃, Copper, ultra-low total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised. See attached SVOC-TIC Report.

The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis.

The sample for Sulphide was received in a container inappropriate for this parameter. It is therefore possible that the results provided may be compromised.

Sub sample taken from PET bottle for PAH due to quality failure on the original sample taken from the glass container and re-analysed outside recommended stability times. It is therefore possible that the results provided could be compromised.

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed: *A Horobin*

Name: **A. Horobin**

Date: **17 January 2017**

Title: **Organic Operations Manager**

ALS Environmental Ltd

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Mr Downes
SKM Ireland c/o Jacobs
Engineering Ireland
Jacobs
Merrion House
Merrion Road
Dublin 4 South Dublin

18 January 2017

Test Report: COV/1346707/2016

Dear Mr Downes

Analysis of your sample(s) submitted on 16 December 2016 is now complete and we have pleasure in enclosing the appropriate test report(s).

An invoice for the analysis carried out will be sent under separate cover.

Should you have any queries regarding this report(s) or any part of our service, please contact Customer Services on +44 (0)24 7642 1213 who will be happy to discuss your requirements.

If you would like to arrange any further analysis, please contact Customer Services. To arrange container delivery or sample collection, please call the Couriers Department directly on 024 7685 6562.

Thank you for using ALS Environmental Ltd and we look forward to receiving your next samples.

Yours Sincerely,

Signed: 

Name: C. Law

Title: Inorganics Operations Manager



Report Summary



1314
0897
4409



Mr Ultan Downes
SKM Ireland c/o Jacobs
Engineering Ireland
Jacobs
Merrion House
Merrion Road
Dublin 4
South Dublin

Date of Issue: **18 January 2017**

Report Number: **COV/1346707/2016**

Issue **3**

Job Description: Kerdiffstown Landfill

Number of Samples
included in this report **4**

Job Received: **16 December 2016**

Number of Test Results
included in this report **1100**

Analysis Commenced: **20 December 2016**

Signed:

Name: **C. Law**

Date: **18 January 2017**

Title: **Inorganics Operations Manager**

ALS Environmental Ltd was not responsible for sampling unless otherwise stated. Sampling is not covered by our UKAS accreditation.

Information on the methods of analysis and performance characteristics are available on request.

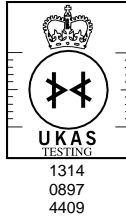
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. The results relate only to the items tested.

Tests marked 'Not UKAS Accredited' in this Report/Certificate are not included in the UKAS Accreditation Schedule for our laboratory.

This communication has been sent to you by ALS Environmental Ltd. Registered in England and Wales. Registration No. 02148934. Registered Office: ALS Environmental Limited, Torrington Avenue, Coventry, CV4 9GU.

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Certificate of Analysis



Report Number: **COV/1346707/2016**

Issue **3**

Laboratory Number: **15759735**

Sample **1** of **4**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH42**

Sample Matrix: **Ground Water**

Sample Date/Time: **15 December 2016**

Sample Received: **16 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	3.1	mg/l	29/12/2016	N Cov	WAS043
Nitrate as NO3	<3.1	mg/l	21/12/2016	N Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	04/01/2017	Y Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	04/01/2017	Y Cov	WAS060
Arsenic, Ultra Low Total as As	0.011	mg/l	04/01/2017	Y Cov	WAS060
Fluoride	0.124	mg/l	22/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
Chloroethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
Aluminium, Total as Al	1.1	mg/l	04/01/2017	Y Cov	WAS049
Barium, Total as Ba	0.113	mg/l	04/01/2017	Y Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	04/01/2017	Y Cov	WAS049
Boron, Total as B	0.40	mg/l	04/01/2017	Y Cov	WAS049
Cadmium , Total as Cd	0.0013	mg/l	04/01/2017	Y Cov	WAS049
Calcium , Total as Ca	232	mg/l	04/01/2017	Y Cov	WAS049
Chromium , Total as Cr	0.005	mg/l	04/01/2017	Y Cov	WAS049
Copper, Ultra-low Total as Cu	19	ug/l	04/01/2017	Y Cov	WAS060
Iron , Total as Fe	6.36	mg/l	04/01/2017	Y Cov	WAS049
Ferrous Iron	1.3	mg/l	29/12/2016	N Cov	WAS043
Ferric Iron	1.7	mg/l	29/12/2016	N Cov	WAS043
Lead , Total as Pb	0.021	mg/l	04/01/2017	Y Cov	WAS049
Magnesium, Total as Mg	21.7	mg/l	04/01/2017	Y Cov	WAS049
Manganese , Total as Mn	4.39	mg/l	04/01/2017	Y Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	29/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.021	mg/l	04/01/2017	Y Cov	WAS049
Potassium , Total as K	16.1	mg/l	04/01/2017	Y Cov	WAS049
Sodium , Total as Na	28.5	mg/l	04/01/2017	Y Cov	WAS049
Vanadium , Total as V	0.005	mg/l	04/01/2017	Y Cov	WAS049
Zinc, Total as Zn	0.06	mg/l	04/01/2017	Y Cov	WAS049
pH	7.3	pH units	30/12/2016	Y Cov	WAS039
Conductivity- Electrical 20C	1120	uS/cm	30/12/2016	Y Cov	WAS039
Alkalinity as CaCO3	320	mg/l	04/01/2017	Y Cov	WAS025
Ammoniacal Nitrogen as N (LL)	3.42	mg/l	20/12/2016	Y Cov	WAS067

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Report Number: **COV/1346707/2016**

Issue **3**

Laboratory Number: **15759735**

Sample **1** of **4**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH42**

Sample Matrix: **Ground Water**

Sample Date/Time: **15 December 2016**

Sample Received: **16 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	25.1	mg/l	21/12/2016	N Cov	WAS036
Nitrite as N	<0.08	mg/l	21/12/2016	N Cov	WAS036
Phosphates , Total as P	0.30	mg/l	04/01/2017	Y Cov	WAS049
Sulphate as SO4	337	mg/l	21/12/2016	N Cov	WAS036
BOD + ATU (5 day)	2	mg/l	27/12/2016	Y Cov	WAS001
COD (Total)	49.0	mg/l	21/12/2016	Y Cov	WAS040
TOC (Filtered)	8.2	mg/l	20/12/2016	Y Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	21/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	21/12/2016	N Cov	WAS018
Sulphide as S	0.140	mg/l	31/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	21/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	12/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	12/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	12/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	23/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	12/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	12/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	12/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	12/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	12/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	12/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	12/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	12/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	12/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	12/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	12/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	12/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	12/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	18/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	12/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	12/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	12/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	12/01/2017	Y Cov	GEO47

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Report Number: **COV/1346707/2016**

Issue **3**

Laboratory Number: **15759735**

Sample **1** of **4**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH42**

Sample Matrix: **Ground Water**

Sample Date/Time: **15 December 2016**

Sample Received: **16 December 2016**

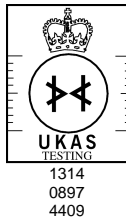
Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	18/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	12/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	12/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	12/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	12/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	12/01/2017	Y Cov	GEO47
Azinphos-ethyl	<0.004	ug/l	18/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	12/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	12/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	18/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	12/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	12/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	12/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	12/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	12/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	12/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	12/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	12/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	12/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	12/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	12/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	12/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	12/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	12/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	12/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	30/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	30/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	30/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	30/12/2016	Y Cov	GEO20

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Report Number: **COV/1346707/2016**

Issue **3**

Laboratory Number: **15759735**

Sample **1** of **4**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH42**

Sample Matrix: **Ground Water**

Sample Date/Time: **15 December 2016**

Sample Received: **16 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	30/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	30/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Mecoprop	0.25	ug/l	30/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	23/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	23/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	23/12/2016	N Cov	338
Naphthol	<0.10	ug/l	23/12/2016	N Cov	338
Phenol	<0.10	ug/l	23/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	23/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	23/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	23/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	23/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	23/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	23/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	23/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	23/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	23/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	23/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	23/12/2016	N Cov	GEO46

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Issue **3**

Laboratory Number: **15759735**

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Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH42**

Sample Matrix: **Ground Water**

Sample Date/Time: **15 December 2016**

Sample Received: **16 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	23/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	23/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	23/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	<10	ug/l	23/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	<10	ug/l	23/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	<10	ug/l	23/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Anthracene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Benzo (a) anthracene	0.032	ug/l	17/01/2017	Y Cov	GEO19
Benzo (g,h,i) perylene	0.051	ug/l	17/01/2017	Y Cov	GEO19
Benzo (a) pyrene	0.049	ug/l	17/01/2017	Y Cov	GEO19
Benzo (b) fluoranthene	0.053	ug/l	17/01/2017	Y Cov	GEO19
Benzo (k) fluoranthene	0.026	ug/l	17/01/2017	Y Cov	GEO19
Chrysene	0.036	ug/l	17/01/2017	Y Cov	GEO19
Dibenz (a,h) anthracene	0.012	ug/l	17/01/2017	Y Cov	GEO19
Fluoranthene	0.067	ug/l	17/01/2017	Y Cov	GEO19
Fluorene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	0.041	ug/l	17/01/2017	Y Cov	GEO19
Naphthalene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Phenanthrene	0.034	ug/l	17/01/2017	Y Cov	GEO19
Pyrene	0.068	ug/l	17/01/2017	Y Cov	GEO19
PAH, Total	0.469	ug/l	17/01/2017	N Cov	GEO19
SVOC	Y	ug/l	22/12/2016	N Cov	GEO40
Phenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Chlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Methylphenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
3&4-Methylphenol	<1.0	ug/l	22/12/2016	N Cov	GEO40
Dibenzofuran	<1.0	ug/l	22/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40

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Issue **3**

Laboratory Number: **15759735**

Sample **1** of **4**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH42**

Sample Matrix: **Ground Water**

Sample Date/Time: **15 December 2016**

Sample Received: **16 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<1.0	ug/l	22/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Hexachloroethane	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Nitrobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Isophorone	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Nitrophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Naphthalene	<2.0	ug/l	22/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Dimethylphthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Acenaphthylene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Acenaphthene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Diethylphthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40
4-Nitrophenol	<5.0	ug/l	22/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Fluorene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Diphenylamine	<1.0	ug/l	22/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Hexachlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Pentachlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Phenanthrene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Anthracene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40

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Issue **3**

Laboratory Number: **15759735**

Sample **1** of **4**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH42**

Sample Matrix: **Ground Water**

Sample Date/Time: **15 December 2016**

Sample Received: **16 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Pyrene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Chrysene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<5.0	ug/l	22/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Fluorophenol	87.2	%Recovery	22/12/2016	N Cov	GEO40
Phenol-d6	72.0	%Recovery	22/12/2016	N Cov	GEO40
Nitrobenzene-d5	90.4	%Recovery	22/12/2016	N Cov	GEO40
2-Fluorobiphenyl	85.6	%Recovery	22/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	82.3	%Recovery	22/12/2016	N Cov	GEO40
Terphenyl-d14	89.9	%Recovery	22/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	22/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	30/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	02/01/2017	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	02/01/2017	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	02/01/2017	Y S	SUBCON

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Report Number: **COV/1346707/2016**

Issue **3**

Laboratory Number: **15759735**

Sample **1** of **4**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **BH42**

Sample Matrix: **Ground Water**

Sample Date/Time: **15 December 2016**

Sample Received: **16 December 2016**

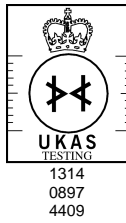
Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	02/01/2017	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	02/01/2017	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	02/01/2017	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	02/01/2017	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Benzene	<0.20	ug/l	02/01/2017	Y S	SUBCON
Bromobenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	02/01/2017	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	02/01/2017	Y S	SUBCON
Bromoform	<0.20	ug/l	02/01/2017	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	02/01/2017	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
Chloroform	<0.10	ug/l	02/01/2017	Y S	SUBCON
Chloromethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	02/01/2017	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	02/01/2017	Y S	SUBCON
Dibromomethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
Dichloromethane	<6.0	ug/l	02/01/2017	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	02/01/2017	Y S	SUBCON
Naphthalene	<1.0	ug/l	02/01/2017	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON

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Report Number: **COV/1346707/2016**
Laboratory Number: **15759735**

Issue **3**
Sample **1** of **4**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
Sample Point Description:
Sample Description: **BH42**
Sample Matrix: **Ground Water**
Sample Date/Time: **15 December 2016**
Sample Received: **16 December 2016**
Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	02/01/2017	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	02/01/2017	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Styrene	<0.20	ug/l	02/01/2017	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	02/01/2017	Y S	SUBCON
Toluene	<0.50	ug/l	02/01/2017	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	02/01/2017	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Trichloroethene	<0.10	ug/l	02/01/2017	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	02/01/2017	Y S	SUBCON

Analyst Comments for 15759735:

This sample has been analysed for Pesticides method GEO47, pH, BOD + ATU (5 day), Nitrite as N, Iron Total as Fe, Manganese Total as Mn, Aluminium, Total as Al, Cadmium Total as Cd, Chromium Total as Cr, Lead Total as Pb, Nickel, Total as Ni, Zinc, Total as Zn, Calcium Total as Ca, Magnesium, Total as Mg, Sodium Total as Na, Potassium Total as K, Phosphates Total as P, Boron, Total as B, Vanadium Total as V, Barium, Total as Ba, Nitrate as NO₃, Beryllium, Total as Be, Copper, ultra-low total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised. {/*}The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis.{*/}
Sub sample taken from PET bottle for PAH due to quality control failure, it is therefore possible that the results provided could be compromised.

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).
For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **C. Law**

Date: **18 January 2017**

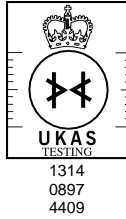
Title: **Inorganics Operations Manager**

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Page 10 of 37

Certificate of Analysis



Report Number: **COV/1346707/2016**

Issue **3**

Laboratory Number: **15759736**

Sample **2** of **4**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW15**

Sample Matrix: **Ground Water**

Sample Date/Time: **15 December 2016**

Sample Received: **16 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	16.9	mg/l	29/12/2016	N Cov	WAS043
Nitrate as NO3	<3.1	mg/l	21/12/2016	N Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	04/01/2017	Y Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	04/01/2017	Y Cov	WAS060
Arsenic, Ultra Low Total as As	0.031	mg/l	04/01/2017	Y Cov	WAS060
Fluoride	0.067	mg/l	22/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
Chloroethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
Aluminium, Total as Al	<0.1	mg/l	04/01/2017	Y Cov	WAS049
Barium, Total as Ba	0.289	mg/l	04/01/2017	Y Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	04/01/2017	Y Cov	WAS049
Boron, Total as B	0.60	mg/l	04/01/2017	Y Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	04/01/2017	Y Cov	WAS049
Calcium , Total as Ca	255	mg/l	04/01/2017	Y Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	04/01/2017	Y Cov	WAS049
Copper, Ultra-low Total as Cu	2.2	ug/l	04/01/2017	Y Cov	WAS060
Iron , Total as Fe	18.9	mg/l	04/01/2017	Y Cov	WAS049
Ferrous Iron	2.9	mg/l	29/12/2016	N Cov	WAS043
Ferric Iron	14.0	mg/l	29/12/2016	N Cov	WAS043
Lead , Total as Pb	<0.006	mg/l	04/01/2017	Y Cov	WAS049
Magnesium, Total as Mg	35.3	mg/l	04/01/2017	Y Cov	WAS049
Manganese , Total as Mn	6.40	mg/l	04/01/2017	Y Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	29/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.007	mg/l	04/01/2017	Y Cov	WAS049
Potassium , Total as K	30.2	mg/l	04/01/2017	Y Cov	WAS049
Sodium , Total as Na	54.5	mg/l	04/01/2017	Y Cov	WAS049
Vanadium , Total as V	<0.004	mg/l	04/01/2017	Y Cov	WAS049
Zinc, Total as Zn	<0.018	mg/l	04/01/2017	Y Cov	WAS049
pH	7.2	pH units	30/12/2016	Y Cov	WAS039
Conductivity- Electrical 20C	1500	uS/cm	30/12/2016	Y Cov	WAS039
Alkalinity as CaCO3	606	mg/l	04/01/2017	Y Cov	WAS025
Ammoniacal Nitrogen as N (LL)	14.4	mg/l	20/12/2016	Y Cov	WAS067

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Report Number: **COV/1346707/2016**

Issue **3**

Laboratory Number: **15759736**

Sample **2** of **4**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW15**

Sample Matrix: **Ground Water**

Sample Date/Time: **15 December 2016**

Sample Received: **16 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	50.3	mg/l	21/12/2016	N Cov	WAS036
Nitrite as N	<0.08	mg/l	21/12/2016	N Cov	WAS036
Phosphates , Total as P	0.85	mg/l	04/01/2017	Y Cov	WAS049
Sulphate as SO4	295	mg/l	21/12/2016	N Cov	WAS036
BOD + ATU (5 day)	1	mg/l	27/12/2016	Y Cov	WAS001
COD (Total)	50.0	mg/l	21/12/2016	Y Cov	WAS040
TOC (Filtered)	11.3	mg/l	20/12/2016	Y Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	21/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	21/12/2016	N Cov	WAS018
Sulphide as S	<0.020	mg/l	31/12/2016	N Cov	WAS033
Formaldehyde	0.143	mg/l	21/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	12/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	12/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	12/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	23/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	12/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	12/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	12/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	12/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	12/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	12/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	12/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	12/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	12/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	12/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	12/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	12/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	12/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	18/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	12/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	12/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	12/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	12/01/2017	Y Cov	GEO47

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Laboratory Number: **15759736**

Sample **2** of **4**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW15**

Sample Matrix: **Ground Water**

Sample Date/Time: **15 December 2016**

Sample Received: **16 December 2016**

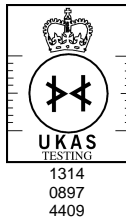
Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	18/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	12/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	12/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	12/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	12/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	12/01/2017	Y Cov	GEO47
Azinphos-ethyl	<0.004	ug/l	18/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	12/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	12/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	18/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	12/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	12/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	12/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	12/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	12/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	12/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	12/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	12/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	12/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	12/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	12/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	12/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	12/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	12/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	12/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	05/01/2017	Y Cov	GEO20
2,4 - D	<0.05	ug/l	05/01/2017	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	05/01/2017	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	05/01/2017	Y Cov	GEO20
Benazolin	<0.05	ug/l	05/01/2017	Y Cov	GEO20
Bentazone	<0.05	ug/l	05/01/2017	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	05/01/2017	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	05/01/2017	Y Cov	GEO20

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Sample **2** of **4**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW15**

Sample Matrix: **Ground Water**

Sample Date/Time: **15 December 2016**

Sample Received: **16 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	05/01/2017	Y Cov	GEO20
Dichlorprop	0.06	ug/l	05/01/2017	Y Cov	GEO20
Fenoprop	<0.05	ug/l	05/01/2017	Y Cov	GEO20
Ioxynil	<0.05	ug/l	05/01/2017	Y Cov	GEO20
MCPA	<0.05	ug/l	05/01/2017	Y Cov	GEO20
MCPB	<0.05	ug/l	05/01/2017	Y Cov	GEO20
Triclopyr	<0.05	ug/l	05/01/2017	Y Cov	GEO20
Mecoprop	0.42	ug/l	05/01/2017	Y Cov	GEO20
Catechol	<0.10	ug/l	23/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	23/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	23/12/2016	N Cov	338
Naphthol	<0.10	ug/l	23/12/2016	N Cov	338
Phenol	<0.10	ug/l	23/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	23/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	23/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	23/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	23/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	23/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	23/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	23/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	23/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	23/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	23/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	23/12/2016	N Cov	GEO46

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Sample Matrix: **Ground Water**

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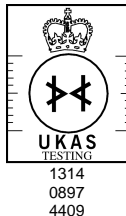
Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	23/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	23/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	23/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	<10	ug/l	23/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	<10	ug/l	23/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	<10	ug/l	23/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Anthracene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Chrysene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Fluoranthene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Fluorene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Naphthalene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Phenanthrene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Pyrene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
PAH, Total	<0.01	ug/l	17/01/2017	N Cov	GEO19
SVOC	Y	ug/l	22/12/2016	N Cov	GEO40
Phenol	1.2	ug/l	22/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Chlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Methylphenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
3&4-Methylphenol	<1.0	ug/l	22/12/2016	N Cov	GEO40
Dibenzofuran	<1.0	ug/l	22/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40

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Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW15**

Sample Matrix: **Ground Water**

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Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<1.0	ug/l	22/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Hexachloroethane	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Nitrobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Isophorone	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Nitrophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Naphthalene	<2.0	ug/l	22/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Dimethylphthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Acenaphthylene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Acenaphthene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Diethylphthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40
4-Nitrophenol	<5.0	ug/l	22/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Fluorene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Diphenylamine	<1.0	ug/l	22/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Hexachlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Pentachlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Phenanthrene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Anthracene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40

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Sample Matrix: **Ground Water**

Sample Date/Time: **15 December 2016**

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Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Pyrene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Chrysene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<5.0	ug/l	22/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Fluorophenol	77.2	%Recovery	22/12/2016	N Cov	GEO40
Phenol-d6	62.8	%Recovery	22/12/2016	N Cov	GEO40
Nitrobenzene-d5	85.8	%Recovery	22/12/2016	N Cov	GEO40
2-Fluorobiphenyl	79.1	%Recovery	22/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	85.4	%Recovery	22/12/2016	N Cov	GEO40
Terphenyl-d14	90.7	%Recovery	22/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	22/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	05/01/2017	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	02/01/2017	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	02/01/2017	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	02/01/2017	Y S	SUBCON

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Sample Point Description:

Sample Description: **EMW15**

Sample Matrix: **Ground Water**

Sample Date/Time: **15 December 2016**

Sample Received: **16 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	02/01/2017	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	02/01/2017	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	02/01/2017	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	02/01/2017	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Benzene	<0.20	ug/l	02/01/2017	Y S	SUBCON
Bromobenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	02/01/2017	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	02/01/2017	Y S	SUBCON
Bromoform	<0.20	ug/l	02/01/2017	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	02/01/2017	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
Chloroform	<0.10	ug/l	02/01/2017	Y S	SUBCON
Chloromethane	1.5	ug/l	02/01/2017	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	02/01/2017	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	02/01/2017	Y S	SUBCON
Dibromomethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
Dichloromethane	<6.0	ug/l	02/01/2017	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	02/01/2017	Y S	SUBCON
Naphthalene	<1.0	ug/l	02/01/2017	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON

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Report Number: **COV/1346707/2016**
Laboratory Number: **15759736**

Issue **3**
Sample **2** of **4**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
Sample Point Description:
Sample Description: **EMW15**
Sample Matrix: **Ground Water**
Sample Date/Time: **15 December 2016**
Sample Received: **16 December 2016**
Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	02/01/2017	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	02/01/2017	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Styrene	<0.20	ug/l	02/01/2017	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	02/01/2017	Y S	SUBCON
Toluene	<0.50	ug/l	02/01/2017	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	02/01/2017	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Trichloroethene	<0.10	ug/l	02/01/2017	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	02/01/2017	Y S	SUBCON

Analyst Comments for 15759736:

This sample has been analysed for Pesticides method GEO47, pH, BOD + ATU (5 day), Nitrite as N, Iron Total as Fe, Manganese Total as Mn, Aluminium, Total as Al, Cadmium Total as Cd, Chromium Total as Cr, Lead Total as Pb, Nickel, Total as Ni, Zinc, Total as Zn, Calcium Total as Ca, Magnesium, Total as Mg, Sodium Total as Na, Potassium Total as K, Phosphates Total as P, Boron, Total as B, Vanadium Total as V, Barium, Total as Ba, Nitrate as NO₃, Beryllium, Total as Be, Copper, ultra-low total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised. {/*}The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis.{*/}
Sub sample taken from PET bottle for PAH due to quality control failure, it is therefore possible that the results provided could be compromised.

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).
For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **C. Law**

Date: **18 January 2017**

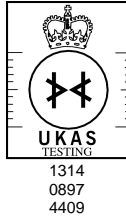
Title: **Inorganics Operations Manager**

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Page 19 of 37

Certificate of Analysis



Report Number: **COV/1346707/2016**

Issue **3**

Laboratory Number: **15759737**

Sample **3** of **4**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW16**

Sample Matrix: **Ground Water**

Sample Date/Time: **15 December 2016**

Sample Received: **16 December 2016**

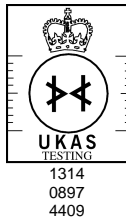
Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	0.7	mg/l	29/12/2016	N Cov	WAS043
Nitrate as NO3	<3.1	mg/l	21/12/2016	N Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	04/01/2017	Y Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	04/01/2017	Y Cov	WAS060
Arsenic, Ultra Low Total as As	0.0038	mg/l	04/01/2017	Y Cov	WAS060
Fluoride	0.028	mg/l	22/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
Chloroethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
Aluminium, Total as Al	1.5	mg/l	04/01/2017	Y Cov	WAS049
Barium, Total as Ba	0.170	mg/l	04/01/2017	Y Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	04/01/2017	Y Cov	WAS049
Boron, Total as B	0.34	mg/l	04/01/2017	Y Cov	WAS049
Cadmium , Total as Cd	0.0014	mg/l	04/01/2017	Y Cov	WAS049
Calcium , Total as Ca	349	mg/l	04/01/2017	Y Cov	WAS049
Chromium , Total as Cr	0.003	mg/l	04/01/2017	Y Cov	WAS049
Copper, Ultra-low Total as Cu	23	ug/l	04/01/2017	Y Cov	WAS060
Iron , Total as Fe	2.90	mg/l	04/01/2017	Y Cov	WAS049
Ferrous Iron	<0.5	mg/l	29/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	29/12/2016	N Cov	WAS043
Lead , Total as Pb	0.010	mg/l	04/01/2017	Y Cov	WAS049
Magnesium, Total as Mg	39.9	mg/l	04/01/2017	Y Cov	WAS049
Manganese , Total as Mn	4.01	mg/l	04/01/2017	Y Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	29/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.033	mg/l	04/01/2017	Y Cov	WAS049
Potassium , Total as K	15.8	mg/l	04/01/2017	Y Cov	WAS049
Sodium , Total as Na	110	mg/l	04/01/2017	Y Cov	WAS049
Vanadium , Total as V	<0.004	mg/l	04/01/2017	Y Cov	WAS049
Zinc, Total as Zn	0.03	mg/l	04/01/2017	Y Cov	WAS049
pH	6.9	pH units	30/12/2016	Y Cov	WAS039
Conductivity- Electrical 20C	2040	uS/cm	30/12/2016	Y Cov	WAS039
Alkalinity as CaCO3	803	mg/l	04/01/2017	Y Cov	WAS025
Ammoniacal Nitrogen as N (LL)	5.18	mg/l	20/12/2016	Y Cov	WAS067

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Report Number: **COV/1346707/2016**
 Laboratory Number: **15759737**

Issue **3**
 Sample **3** of **4**

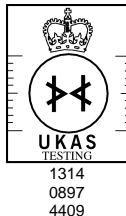
Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW16**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **15 December 2016**
 Sample Received: **16 December 2016**
 Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	153	mg/l	21/12/2016	N Cov	WAS036
Nitrite as N	0.33	mg/l	21/12/2016	N Cov	WAS036
Phosphates , Total as P	0.34	mg/l	04/01/2017	Y Cov	WAS049
Sulphate as SO4	410	mg/l	21/12/2016	N Cov	WAS036
BOD + ATU (5 day)	1	mg/l	27/12/2016	Y Cov	WAS001
COD (Total)	86.0	mg/l	21/12/2016	Y Cov	WAS040
TOC (Filtered)	18.4	mg/l	20/12/2016	Y Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	21/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	21/12/2016	N Cov	WAS018
Sulphide as S	0.112	mg/l	31/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	21/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	12/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	12/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	12/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	23/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	12/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	12/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	12/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	12/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	12/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	12/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	12/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	12/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	12/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	12/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	12/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	12/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	12/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	18/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	12/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	12/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	12/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	12/01/2017	Y Cov	GEO47

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Report Number: **COV/1346707/2016**

Issue **3**

Laboratory Number: **15759737**

Sample **3** of **4**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW16**

Sample Matrix: **Ground Water**

Sample Date/Time: **15 December 2016**

Sample Received: **16 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	18/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	12/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	12/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	12/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	12/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	12/01/2017	Y Cov	GEO47
Azinphos-ethyl	<0.004	ug/l	18/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	12/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	12/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	18/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	12/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	12/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	12/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	12/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	12/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	12/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	12/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	12/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	12/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	12/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	12/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	12/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	12/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	12/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	12/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	30/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	30/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	30/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	30/12/2016	Y Cov	GEO20

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Report Number: **COV/1346707/2016**
 Laboratory Number: **15759737**

Issue **3**
 Sample **3** of **4**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW16**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **15 December 2016**
 Sample Received: **16 December 2016**
 Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	30/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	30/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Mecoprop	0.74	ug/l	30/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	23/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	23/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	23/12/2016	N Cov	338
Naphthol	<0.10	ug/l	23/12/2016	N Cov	338
Phenol	<0.10	ug/l	23/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	23/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	23/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	23/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	23/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	23/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	23/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	23/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	23/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	23/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	23/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	23/12/2016	N Cov	GEO46

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Report Number: **COV/1346707/2016**

Issue **3**

Laboratory Number: **15759737**

Sample **3** of **4**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW16**

Sample Matrix: **Ground Water**

Sample Date/Time: **15 December 2016**

Sample Received: **16 December 2016**

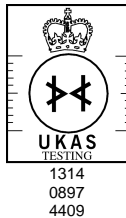
Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Aromatic EPH >C35 - C44	<10	ug/l	23/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	23/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	23/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	<10	ug/l	23/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	<10	ug/l	23/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	<10	ug/l	23/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Anthracene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Chrysene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Fluoranthene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Fluorene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Naphthalene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Phenanthrene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
Pyrene	<0.01	ug/l	17/01/2017	Y Cov	GEO19
PAH, Total	<0.01	ug/l	17/01/2017	N Cov	GEO19
SVOC	Y	ug/l	22/12/2016	N Cov	GEO40
Phenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Chlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Methylphenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
3&4-Methylphenol	<1.0	ug/l	22/12/2016	N Cov	GEO40
Dibenzofuran	<1.0	ug/l	22/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40

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Report Number: **COV/1346707/2016**

Issue **3**

Laboratory Number: **15759737**

Sample **3** of **4**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW16**

Sample Matrix: **Ground Water**

Sample Date/Time: **15 December 2016**

Sample Received: **16 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<1.0	ug/l	22/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Hexachloroethane	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Nitrobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Isophorone	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Nitrophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Naphthalene	<2.0	ug/l	22/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Dimethylphthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Acenaphthylene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Acenaphthene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Diethylphthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40
4-Nitrophenol	<5.0	ug/l	22/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Fluorene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Diphenylamine	<1.0	ug/l	22/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Hexachlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Pentachlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Phenanthrene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Anthracene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40

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Report Number: **COV/1346707/2016**
 Laboratory Number: **15759737**

Issue **3**
 Sample **3** of **4**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**
 Sample Point Description:
 Sample Description: **EMW16**
 Sample Matrix: **Ground Water**
 Sample Date/Time: **15 December 2016**
 Sample Received: **16 December 2016**
 Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Fluoranthene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Pyrene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Chrysene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<5.0	ug/l	22/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Fluorophenol	81.6	%Recovery	22/12/2016	N Cov	GEO40
Phenol-d6	68.0	%Recovery	22/12/2016	N Cov	GEO40
Nitrobenzene-d5	88.1	%Recovery	22/12/2016	N Cov	GEO40
2-Fluorobiphenyl	80.7	%Recovery	22/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	89.7	%Recovery	22/12/2016	N Cov	GEO40
Terphenyl-d14	85.6	%Recovery	22/12/2016	N Cov	GEO40
Nitrite as N02	1.09	mg/l	22/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	30/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	02/01/2017	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	02/01/2017	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	02/01/2017	Y S	SUBCON

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Report Number: **COV/1346707/2016**

Issue **3**

Laboratory Number: **15759737**

Sample **3** of **4**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW16**

Sample Matrix: **Ground Water**

Sample Date/Time: **15 December 2016**

Sample Received: **16 December 2016**

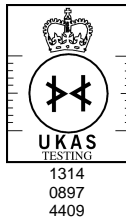
Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	02/01/2017	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	02/01/2017	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	02/01/2017	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	02/01/2017	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Benzene	<0.20	ug/l	02/01/2017	Y S	SUBCON
Bromobenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	02/01/2017	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	02/01/2017	Y S	SUBCON
Bromoform	<0.20	ug/l	02/01/2017	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	02/01/2017	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
Chloroform	<0.10	ug/l	02/01/2017	Y S	SUBCON
Chloromethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	02/01/2017	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	02/01/2017	Y S	SUBCON
Dibromomethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
Dichloromethane	<6.0	ug/l	02/01/2017	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	02/01/2017	Y S	SUBCON
Naphthalene	<1.0	ug/l	02/01/2017	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON

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Report Number: **COV/1346707/2016**

Issue **3**

Laboratory Number: **15759737**

Sample **3** of **4**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW16**

Sample Matrix: **Ground Water**

Sample Date/Time: **15 December 2016**

Sample Received: **16 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	02/01/2017	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	02/01/2017	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Styrene	<0.20	ug/l	02/01/2017	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	02/01/2017	Y S	SUBCON
Toluene	<0.50	ug/l	02/01/2017	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	02/01/2017	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Trichloroethene	<0.10	ug/l	02/01/2017	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	02/01/2017	Y S	SUBCON

Analyst Comments for 15759737:

This sample has been analysed for Pesticides method GEO47, pH, BOD + ATU (5 day), Nitrite as N, Iron Total as Fe, Manganese Total as Mn, Aluminium, Total as Al, Cadmium Total as Cd, Chromium Total as Cr, Lead Total as Pb, Nickel, Total as Ni, Zinc, Total as Zn, Calcium Total as Ca, Magnesium, Total as Mg, Sodium Total as Na, Potassium Total as K, Phosphates Total as P, Boron, Total as B, Vanadium Total as V, Barium, Total as Ba, Nitrate as NO₃, Beryllium, Total as Be, Copper, ultra-low total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised. {/}*The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis.{*/}
Sub sample taken from PET bottle for PAH due to quality control failure, it is therefore possible that the results provided could be compromised.

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG). For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **C. Law**

Date: **18 January 2017**

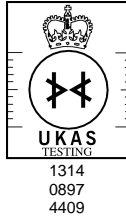
Title: **Inorganics Operations Manager**

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Page 28 of 37

Certificate of Analysis



Report Number: **COV/1346707/2016**

Issue **3**

Laboratory Number: **15759738**

Sample **4** of **4**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW17**

Sample Matrix: **Ground Water**

Sample Date/Time: **15 December 2016**

Sample Received: **16 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Iron, Total	<0.5	mg/l	29/12/2016	N Cov	WAS043
Nitrate as NO3	<3.1	mg/l	21/12/2016	N Cov	WAS036
Antimony Ultra Low Total as Sb	<0.0012	mg/l	04/01/2017	Y Cov	WAS060
Selenium Ultra Low Total as Se	<0.0008	mg/l	04/01/2017	Y Cov	WAS060
Arsenic, Ultra Low Total as As	0.0011	mg/l	04/01/2017	Y Cov	WAS060
Fluoride	0.109	mg/l	22/12/2016	Y S	SUBCON
Bromomethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
Chloroethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
Aluminium, Total as Al	<0.1	mg/l	04/01/2017	Y Cov	WAS049
Barium, Total as Ba	0.054	mg/l	04/01/2017	Y Cov	WAS049
Beryllium, Total as Be	<0.0021	mg/l	04/01/2017	Y Cov	WAS049
Boron, Total as B	<0.23	mg/l	04/01/2017	Y Cov	WAS049
Cadmium , Total as Cd	<0.0006	mg/l	04/01/2017	Y Cov	WAS049
Calcium , Total as Ca	95.1	mg/l	04/01/2017	Y Cov	WAS049
Chromium , Total as Cr	<0.002	mg/l	04/01/2017	Y Cov	WAS049
Copper, Ultra-low Total as Cu	<1.9	ug/l	04/01/2017	Y Cov	WAS060
Iron , Total as Fe	<0.23	mg/l	04/01/2017	Y Cov	WAS049
Ferrous Iron	<0.5	mg/l	29/12/2016	N Cov	WAS043
Ferric Iron	<0.5	mg/l	29/12/2016	N Cov	WAS043
Lead , Total as Pb	<0.006	mg/l	04/01/2017	Y Cov	WAS049
Magnesium, Total as Mg	10.9	mg/l	04/01/2017	Y Cov	WAS049
Manganese , Total as Mn	1.37	mg/l	04/01/2017	Y Cov	WAS049
Mercury, Total as Hg	<0.00010	mg/l	29/12/2016	N Cov	WAS013
Nickel, Total as Ni	0.005	mg/l	04/01/2017	Y Cov	WAS049
Potassium , Total as K	3.60	mg/l	04/01/2017	Y Cov	WAS049
Sodium , Total as Na	11.2	mg/l	04/01/2017	Y Cov	WAS049
Vanadium , Total as V	<0.004	mg/l	04/01/2017	Y Cov	WAS049
Zinc, Total as Zn	<0.018	mg/l	04/01/2017	Y Cov	WAS049
pH	7.4	pH units	30/12/2016	Y Cov	WAS039
Conductivity- Electrical 20C	529	uS/cm	30/12/2016	Y Cov	WAS039
Alkalinity as CaCO3	264	mg/l	04/01/2017	Y Cov	WAS025
Ammoniacal Nitrogen as N (LL)	1.39	mg/l	20/12/2016	Y Cov	WAS067

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Report Number: **COV/1346707/2016**

Issue **3**

Laboratory Number: **15759738**

Sample **4** of **4**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW17**

Sample Matrix: **Ground Water**

Sample Date/Time: **15 December 2016**

Sample Received: **16 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Chloride as Cl	19.5	mg/l	21/12/2016	N Cov	WAS036
Nitrite as N	<0.08	mg/l	21/12/2016	N Cov	WAS036
Phosphates , Total as P	<0.120	mg/l	04/01/2017	Y Cov	WAS049
Sulphate as SO4	8.8	mg/l	21/12/2016	N Cov	WAS036
BOD + ATU (5 day)	1	mg/l	27/12/2016	Y Cov	WAS001
COD (Total)	<11.0	mg/l	21/12/2016	Y Cov	WAS040
TOC (Filtered)	1.8	mg/l	20/12/2016	Y Cov	WAS005
Cyanide, Free as CN	<0.008	mg/l	21/12/2016	N Cov	WAS018
Cyanide, Total as CN	<0.009	mg/l	21/12/2016	N Cov	WAS018
Sulphide as S	0.024	mg/l	31/12/2016	N Cov	WAS033
Formaldehyde	<0.029	mg/l	21/12/2016	N Cov	WAS030
1,2,3-Trichlorobenzene	<10	ng/l	12/01/2017	Y Cov	GEO47
1,2,4-Trichlorobenzene	<10	ng/l	12/01/2017	Y Cov	GEO47
1,3,5-Trichlorobenzene	<10	ng/l	12/01/2017	N Cov	GEO47
SVOC with TICs	Y	ug/l	23/12/2016	N Cov	GEO40
Aldrin	<4	ng/l	12/01/2017	Y Cov	GEO47
alpha-Endosulphan	<4	ng/l	12/01/2017	Y Cov	GEO47
alpha-HCH	<3	ng/l	12/01/2017	Y Cov	GEO47
beta-Endosulphan	<4	ng/l	12/01/2017	Y Cov	GEO47
beta-HCH	<3	ng/l	12/01/2017	Y Cov	GEO47
alpha-Chlordane	<3	ng/l	12/01/2017	Y Cov	GEO47
Dichlobenil	<2	ng/l	12/01/2017	Y Cov	GEO47
Dieldrin	<4	ng/l	12/01/2017	Y Cov	GEO47
Endrin	<4	ng/l	12/01/2017	Y Cov	GEO47
gamma-HCH	<2.7	ng/l	12/01/2017	Y Cov	GEO47
Heptachlor Epoxide	<4	ng/l	12/01/2017	Y Cov	GEO47
Hexachlorobenzene	<2	ng/l	12/01/2017	Y Cov	GEO47
Hexachlorobutadiene	<7	ng/l	12/01/2017	N Cov	GEO47
Isodrin	<4	ng/l	18/01/2017	Y Cov	GEO47
o,p - DDE	<2	ng/l	12/01/2017	Y Cov	GEO47
p,p - DDE	<2	ng/l	12/01/2017	Y Cov	GEO47
o,p - TDE	<2	ng/l	12/01/2017	Y Cov	GEO47
p,p - TDE	<2	ng/l	12/01/2017	Y Cov	GEO47

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Report Number: **COV/1346707/2016**

Issue **3**

Laboratory Number: **15759738**

Sample **4** of **4**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW17**

Sample Matrix: **Ground Water**

Sample Date/Time: **15 December 2016**

Sample Received: **16 December 2016**

Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
o,p - DDT	<2	ng/l	18/01/2017	Y Cov	GEO47
p,p - DDT	<4	ng/l	12/01/2017	Y Cov	GEO47
Tecnazene	<10	ng/l	12/01/2017	Y Cov	GEO47
gamma-Chlordane	<4	ng/l	12/01/2017	Y Cov	GEO47
Triallate	<10	ng/l	12/01/2017	Y Cov	GEO47
Trifluralin	<30	ng/l	12/01/2017	Y Cov	GEO47
Azinphos-ethyl	<0.004	ug/l	18/01/2017	Y Cov	GEO47
Azinphos-methyl	<0.002	ug/l	12/01/2017	Y Cov	GEO47
Carbophenothion	<0.003	ug/l	12/01/2017	Y Cov	GEO47
Chlorfenvinphos	<0.002	ug/l	18/01/2017	Y Cov	GEO47
Chlorpyrifos	<0.002	ug/l	12/01/2017	Y Cov	GEO47
Diazinon	<0.003	ug/l	12/01/2017	Y Cov	GEO47
Dichlorvos	<0.002	ug/l	12/01/2017	Y Cov	GEO47
Dimethoate	<0.020	ug/l	12/01/2017	Y Cov	GEO47
Fenitrothion	<0.002	ug/l	12/01/2017	Y Cov	GEO47
Fenthion	<0.002	ug/l	12/01/2017	Y Cov	GEO47
Malathion	<0.004	ug/l	12/01/2017	Y Cov	GEO47
Mevinphos	<0.020	ug/l	12/01/2017	Y Cov	GEO47
Parathion-ethyl	<0.003	ug/l	12/01/2017	Y Cov	GEO47
Parathion-methyl	<0.003	ug/l	12/01/2017	Y Cov	GEO47
Phorate	<0.004	ug/l	12/01/2017	Y Cov	GEO47
Phosalone	<0.004	ug/l	12/01/2017	Y Cov	GEO47
Pirimiphos-methyl	<0.005	ug/l	12/01/2017	Y Cov	GEO47
Propetamphos	<0.003	ug/l	12/01/2017	Y Cov	GEO47
Triazophos	<0.002	ug/l	12/01/2017	Y Cov	GEO47
2,3,6 - TBA	<0.05	ug/l	30/12/2016	Y Cov	GEO20
2,4 - D	<0.05	ug/l	30/12/2016	Y Cov	GEO20
2,4 - DB	<0.05	ug/l	30/12/2016	Y Cov	GEO20
2,4,5 - T	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Benazolin	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Bentazone	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Chlopyralid	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Bromoxynil	<0.05	ug/l	30/12/2016	Y Cov	GEO20

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Issue **3**

Laboratory Number: **15759738**

Sample **4** of **4**

Sample Source: **SKM Ireland c/o Jacobs Engineering Ireland**

Sample Point Description:

Sample Description: **EMW17**

Sample Matrix: **Ground Water**

Sample Date/Time: **15 December 2016**

Sample Received: **16 December 2016**

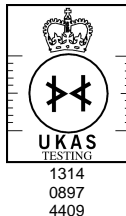
Analysis Complete: **18 January 2017**

Test Description	Result	Units	Analysis Date	Accreditation	Method
Dicamba	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Dichlorprop	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Fenoprop	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Ioxynil	<0.05	ug/l	30/12/2016	Y Cov	GEO20
MCPA	<0.05	ug/l	30/12/2016	Y Cov	GEO20
MCPB	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Triclopyr	<0.05	ug/l	30/12/2016	Y Cov	GEO20
Mecoprop	<0.04	ug/l	30/12/2016	Y Cov	GEO20
Catechol	<0.10	ug/l	23/12/2016	N Cov	338
Cresol, Total	<0.10	ug/l	23/12/2016	N Cov	338
Xylenol, Total	<0.10	ug/l	23/12/2016	N Cov	338
Naphthol	<0.10	ug/l	23/12/2016	N Cov	338
Phenol	<0.10	ug/l	23/12/2016	N Cov	338
Trimethylphenol, Total	<0.10	ug/l	23/12/2016	N Cov	338
Phenols, Total	<0.50	ug/l	23/12/2016	N Cov	338
Aliphatic VPH >C5 - C6	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C6 - C8	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C8 - 10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C7	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C7 - C8	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C8 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aromatic VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
VPH >C5 - C10	<10	ug/l	22/12/2016	Y Cov	GEO45
Aliphatic EPH >C10 - C12	<10	ug/l	23/12/2016	N Cov	GEO46
Aliphatic EPH >C12 - C16	<10	ug/l	23/12/2016	N Cov	GEO46
Aliphatic EPH >C16 - C35	<10	ug/l	23/12/2016	N Cov	GEO46
Aliphatic EPH >C35 - C44	<10	ug/l	23/12/2016	N Cov	GEO46
Aliphatic EPH >C10 - C44	<10	ug/l	23/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C12	<10	ug/l	23/12/2016	N Cov	GEO46
Aromatic EPH >C12 - C16	<10	ug/l	23/12/2016	N Cov	GEO46
Aromatic EPH >C16 - C21	<10	ug/l	23/12/2016	N Cov	GEO46
Aromatic EPH >C21 - C35	<10	ug/l	23/12/2016	N Cov	GEO46

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Aromatic EPH >C35 - C44	<10	ug/l	23/12/2016	N Cov	GEO46
Aromatic EPH >C10 - C44	<10	ug/l	23/12/2016	N Cov	GEO46
EPH >C10 - C44	<10	ug/l	23/12/2016	N Cov	GEO46
Aliphatic VPH/EPH >C5 - C44	<10	ug/l	23/12/2016	N Cov	GEO45/GEO4
Aromatic VPH/EPH >C5 - C44	<10	ug/l	23/12/2016	N Cov	GEO45/GEO4
VPH/EPH >C5 - C44	<10	ug/l	23/12/2016	N Cov	GEO45/GEO4
Acenaphthene	<0.01	ug/l	13/01/2017	Y Cov	GEO19
Acenaphthylene	<0.01	ug/l	13/01/2017	Y Cov	GEO19
Anthracene	<0.01	ug/l	13/01/2017	Y Cov	GEO19
Benzo (a) anthracene	<0.01	ug/l	13/01/2017	Y Cov	GEO19
Benzo (g,h,i) perylene	<0.01	ug/l	13/01/2017	Y Cov	GEO19
Benzo (a) pyrene	<0.01	ug/l	13/01/2017	Y Cov	GEO19
Benzo (b) fluoranthene	<0.01	ug/l	13/01/2017	Y Cov	GEO19
Benzo (k) fluoranthene	<0.01	ug/l	13/01/2017	Y Cov	GEO19
Chrysene	<0.01	ug/l	13/01/2017	Y Cov	GEO19
Dibenz (a,h) anthracene	<0.01	ug/l	13/01/2017	Y Cov	GEO19
Fluoranthene	<0.01	ug/l	13/01/2017	Y Cov	GEO19
Fluorene	<0.01	ug/l	13/01/2017	Y Cov	GEO19
Indeno (1,2,3) cd pyrene	<0.01	ug/l	13/01/2017	Y Cov	GEO19
Naphthalene	<0.01	ug/l	13/01/2017	Y Cov	GEO19
Phenanthrene	<0.01	ug/l	13/01/2017	Y Cov	GEO19
Pyrene	<0.01	ug/l	13/01/2017	Y Cov	GEO19
PAH, Total	<0.01	ug/l	13/01/2017	N Cov	GEO19
SVOC	Y	ug/l	22/12/2016	N Cov	GEO40
Phenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Bis(2-chloroethyl)ether	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Chlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
1,3-Dichlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
1,4-Dichlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Methylphenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
3&4-Methylphenol	<1.0	ug/l	22/12/2016	N Cov	GEO40
Dibenzofuran	<1.0	ug/l	22/12/2016	N Cov	GEO40
1,2-Dichlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40

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Test Description	Result	Units	Analysis Date	Accreditation	Method
Bis(2-chloroisopropyl)ether	<1.0	ug/l	22/12/2016	Y Cov	GEO40
n-Nitrosodi-n-propylamine	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Hexachloroethane	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Nitrobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Isophorone	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4-Dimethylphenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Nitrophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Bis(2-chloroethoxy)methane	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4-Dichlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
1,2,4-Trichlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Naphthalene	<2.0	ug/l	22/12/2016	Y Cov	GEO40
Hexachlorobutadiene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
4-Chloro-3-methylphenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Methylnaphthalene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4,6-Trichlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4,5-Trichlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Chloronaphthalene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Dimethylphthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,6-Dinitrotoluene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Acenaphthylene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Acenaphthene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2,4-Dinitrotoluene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Diethylphthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40
4-Nitrophenol	<5.0	ug/l	22/12/2016	Y Cov	GEO40
4-Chlorophenyl phenyl ether	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Fluorene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Diphenylamine	<1.0	ug/l	22/12/2016	N Cov	GEO40
4-Bromophenyl Phenyl Ether	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Hexachlorobenzene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Pentachlorophenol	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Phenanthrene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Anthracene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
di-n-Butylphthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40

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Fluoranthene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Pyrene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzyl Butyl Phthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(a)anthracene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Chrysene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Bis(2-ethylhexyl)phthalate	<5.0	ug/l	22/12/2016	Y Cov	GEO40
Di-n-octylphthalate	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(b)fluoranthene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(k)fluoranthene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(a)pyrene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Indeno(1,2,3-c,d)pyrene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Dibenz(a,h)anthracene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
Benzo(g,h,i)perylene	<1.0	ug/l	22/12/2016	Y Cov	GEO40
2-Fluorophenol	81.5	%Recovery	22/12/2016	N Cov	GEO40
Phenol-d6	66.5	%Recovery	22/12/2016	N Cov	GEO40
Nitrobenzene-d5	90.9	%Recovery	22/12/2016	N Cov	GEO40
2-Fluorobiphenyl	82.1	%Recovery	22/12/2016	N Cov	GEO40
2,4,6-Tribromophenol	80.6	%Recovery	22/12/2016	N Cov	GEO40
Terphenyl-d14	83.4	%Recovery	22/12/2016	N Cov	GEO40
Nitrite as N02	<0.28	mg/l	22/12/2016	N Cov	WAS036
Fluoroxypyr	<0.05	ug/l	30/12/2016	Y Cov	GEO20
1,1,1,2-Tetrachloroethane	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,1,1-Trichloroethane	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,1,2,2-Tetrachloroethane	<0.20	ug/l	02/01/2017	Y S	SUBCON
1,1,2-Trichloroethane	<0.20	ug/l	02/01/2017	Y S	SUBCON
1,1-Dichloroethane	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,1-Dichloroethene	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,1-Dichloropropene	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,2,3-Trichlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,2,3-Trichloropropane	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,2,4-Trichlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,2,4-Trimethylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,2-Dibromo-3-chloropropane	<1.0	ug/l	02/01/2017	Y S	SUBCON

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Test Description	Result	Units	Analysis Date	Accreditation	Method
1,2-Dibromoethane	<0.50	ug/l	02/01/2017	Y S	SUBCON
1,2-Dichlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,2-Dichloroethane	<0.50	ug/l	02/01/2017	Y S	SUBCON
1,2-Dichloropropane	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,3,5-Trimethylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,3-Dichlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
1,3-Dichloropropane	<1.0	ug/l	02/01/2017	Y S	SUBCON
1,4-Dichlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
2,2-Dichloropropane	<1.0	ug/l	02/01/2017	Y S	SUBCON
2-Chlorotoluene	<1.0	ug/l	02/01/2017	Y S	SUBCON
4-Chlorotoluene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Benzene	<0.20	ug/l	02/01/2017	Y S	SUBCON
Bromobenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Bromochloromethane	<2.0	ug/l	02/01/2017	Y S	SUBCON
Bromodichloromethane	<0.10	ug/l	02/01/2017	Y S	SUBCON
Bromoform	<0.20	ug/l	02/01/2017	Y S	SUBCON
Carbon Tetrachloride	<0.10	ug/l	02/01/2017	Y S	SUBCON
Chlorobenzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
Chloroform	<0.10	ug/l	02/01/2017	Y S	SUBCON
Chloromethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
cis-1,2-Dichloroethene	<0.10	ug/l	02/01/2017	Y S	SUBCON
cis-1,3-Dichloropropene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Dibromochloromethane	<0.10	ug/l	02/01/2017	Y S	SUBCON
Dibromomethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
Dichlorodifluoromethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
Dichloromethane	<6.0	ug/l	02/01/2017	Y S	SUBCON
Ethyl Benzene	<0.10	ug/l	02/01/2017	Y S	SUBCON
Hexachlorobutadiene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Isopropylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
m&p-Xylene	<0.20	ug/l	02/01/2017	Y S	SUBCON
Naphthalene	<1.0	ug/l	02/01/2017	Y S	SUBCON
n-Butylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
n-Propylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON

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Test Description	Result	Units	Analysis Date	Accreditation	Method
o-Xylene	<0.10	ug/l	02/01/2017	Y S	SUBCON
p-Isopropyltoluene	<1.0	ug/l	02/01/2017	Y S	SUBCON
sec-Butylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Styrene	<0.20	ug/l	02/01/2017	Y S	SUBCON
tert-Butylbenzene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Tetrachloroethene	<0.20	ug/l	02/01/2017	Y S	SUBCON
Toluene	<0.50	ug/l	02/01/2017	Y S	SUBCON
trans-1,2-Dichloroethene	<0.10	ug/l	02/01/2017	Y S	SUBCON
trans-1,3-Dichloropropene	<1.0	ug/l	02/01/2017	Y S	SUBCON
Trichloroethene	<0.10	ug/l	02/01/2017	Y S	SUBCON
Trichlorofluoromethane	<1.0	ug/l	02/01/2017	Y S	SUBCON
Vinyl Chloride	<0.10	ug/l	02/01/2017	Y S	SUBCON

Analyst Comments for 15759738:

This sample has been analysed for Pesticides method GEO47, pH, BOD + ATU (5 day), Nitrite as N, Iron Total as Fe, Manganese Total as Mn, Aluminium, Total as Al, Cadmium Total as Cd, Chromium Total as Cr, Lead Total as Pb, Nickel, Total as Ni, Zinc, Total as Zn, Calcium Total as Ca, Magnesium, Total as Mg, Sodium Total as Na, Potassium Total as K, Phosphates Total as P, Boron, Total as B, Vanadium Total as V, Barium, Total as Ba, Nitrate as NO₃, Beryllium, Total as Be, Copper, ultra-low total as Cu outside recommended stability times. It is therefore possible that the results provided may be compromised. {/*}The ferrous iron analysis was not carried out on site and there is the possibility of change in ferrous-ferric ratio between sampling and analysis.{*/}

Accreditation Codes: Y = UKAS / ISO17025 Accredited, N = Not UKAS / ISO17025 Accredited, M = MCERTS.

Analysed at: Cov = Coventry(CV4 9GU), Che = Chester(CH4 9EP), Ott = Otterbourne(SO21 2SW), S = Subcontracted, Trb = Subcontracted to Trowbridge(BA14 0XD), Wak = Wakefield(WF5 9TG).

For Microbiological determinands 0 or ND=Not Detected, For Legionella ND=Not Detected in volume of sample filtered. The LOD for the Legionella analysis will increase where the volume analysed is <1000g (1g is approximately equivalent to 1ml for sample volume analysed).

I/S=Insufficient sample For soil/sludge samples: AR=As received, DW=Dry weight.

Signed:

Name: **C. Law**

Date: **18 January 2017**

Title: **Inorganics Operations Manager**

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