



NOTES

REPRODUCED FROM THE ORDNANCE SURVEY MAP WITH THE PERMISSION OF HER MAJESTY'S STATIONERY OFFICE, CROWN COPYRIGHT RESERVED LICENCE No ALS49967

Ten Trial Pits To Be Located Within Area Following Completion Of Geophysics

Tanks Not To Be Penetrated By Exploratory Holes

KEY:	Totals
□ Trial Pit	71
○ Borehole	7
• Probe Hole	41
⊠ Trench	4
P Piezometer	3
G Gas/Water Standpipe	4
▨ Area of geophysics, to investigate underground fuel tanks	

B	Notes Added	S.C.B.	QC	JGM	Mar. 97
A	INSET ADDED, GRID EXTENDED	S.C.B.	QC	JGM	FEB. 97
Rev	Amendments	Drawn	Chkd	Appr	Date

WSP Environmental Ltd.

Job Title
NORTHERN AIRFIELD PHASE 2, GARSTON, LIVERPOOL

Drawing Title
EXPLORATORY HOLE LOCATION PLAN

Client
SPEKE GARSTON DEVELOPMENT COMPANY

Scale 1:2500	Date FEBRUARY 1997	Doc Sheet No
Drawn S.C.B.	Checked CJH	Approved JGM
Job No CKG/790043/000	Drawing No CKG/790043/2A	Rev B



Equipment & Methods
Machine dug using JCB 3CX excavator
Support used : None
Backfill : Arisings

Location No. 8167
Location NORTHERN AIRFIELD PHASE 2
Carried out for Speke Garston Regeneration

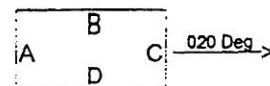
Ground Level ----- Coordinates ----- Date 23/02/98

Description FACE A	Reduced Level	Legend	Depth (Thick)	Samples/Tests			Field Records
				Depth	Sample Type	Test No.	
Loose brown sandy TOPSOIL.			(0.20)				
Dense red sandy fine to coarse GRAVEL of brick and occasional cobble of brick.			0.20				
(MADE GROUND)			(0.50)				
			0.70				
Loose black subangular medium to coarse GRAVEL of slag and ash with glass, rags, wire, brush, bottles, logs, porcelain and a bituminous petroleum odour.				0.90	B	1	
				0.90	D	2	
				1.05	W	3	
(MADE GROUND)			(1.00)				
			1.70				
Firm to stiff brown mottled grey extremely closely fissured slightly sandy CLAY with subangular to subrounded fine to medium gravel of mixed lithology.				1.90	B	4	
				1.90	D	5	
(GLACIAL DEPOSITS)			(0.90)				
			2.60				
Stiff brown slightly sandy CLAY with subangular to subrounded fine to coarse gravel of mixed lithology with extremely closely spaced fissures.				3.00	B	6	
				3.00	D	7	
(GLACIAL DEPOSITS)			(1.40 pen)				
			4.00				
TRIAL PIT ENDS AT 4.00 m.				4.00	B	8	
				4.00	D	9	

Remarks

Stability : Moderately stable
Similarity of faces : All similar
Water pumped : Water at 1.40m, rose to 1.05m in 20 mins, moderate flow.
Ease of excavation: Easy.

Sketch



Logged by

PT

Scale

1:25



Equipment & Methods Machine dug using JCB 3CX excavator Pit dimensions 3.20m by 0.90m. Support used : None Backfill : Arisings		Location No. 8167 Location NORTHERN AIRFIELD PHASE 2 Carried out for Speke Garston Regeneration		Ground Level -----		Coordinates		Date 24/02/98	
Description FACE A	Reduced Level	Legend	Depth (Thick)	Samples/Tests			Field Records		
				Depth	Sample Type	Sample No.			
Loose dark brown silty SAND. (TOPSOIL)			(0.60)						
Loose brown medium SAND. (QUATERNARY BLOWN SAND)			0.60 (0.90)	0.80 0.80	B D	1 2			
Firm grey sandy CLAY with occasional subangular to subrounded gravel of mixed lithologies. (GLACIAL DEPOSITS)			1.50 (0.70)	1.50	W				
Firm light red brown sandy CLAY with pockets of sand and occasional subangular to subrounded gravel of mixed lithologies. 2.40m, becoming extremely closely fissured. (GLACIAL DEPOSITS)			2.20 (1.80 pen)	2.50 2.50	B D	3 4			
TRIAL PIT ENDS AT 4.00 m.			4.00	3.50 3.50	B D	5 6			
Remarks Stability : Unstable 0.00 - 1.50m Similarity of faces : All similar Water pumped : Water strike at 1.50m, rose to 0.63m in 20 mins Ease of excavation: Easy 1. Land drain pipe broken and seeping at 1.50m.				Sketch 			Logged by MW Scale 1:25		
				(c) Soil Mechanics (Ver 6.0) 05/06/98 16:08:49			Fig. 26		



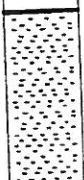
Soil Mechanics

Sheet 1 of 1

Equipment & Methods
Machine dug using JCB 3CX excavator
Pit dimensions 3.10m by 0.80m.
Support used : None
Backfill : Arisings

Location No. 8167
Location NORTHERN AIRFIELD PHASE 2
Carried out for Speke Garston Regeneration

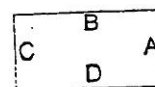
Ground Level Coordinates Date
24/02/98

Description FACE A	Reduced Level	Legend	Depth (Thick)	Samples/Tests			Field Records	
				Depth	Sample			Test
					Type	No.		
Loose dark brown silty SAND. (TOPSOIL)			(0.30)					
Loose grey, becoming yellow grey after 0.70m medium grained SAND. (QUATERNARY BLOWN SAND)			0.30	0.40 0.40	B D	1 2		
			(0.60)					
			0.90					
Firm light red brown sandy CLAY with pockets of grey medium grained sand and occasional subangular to subrounded gravel of mixed lithologies. 1.20m, becoming stiff and extremely closely fissured. (GLACIAL DEPOSITS)				1.40 1.40	B D	3 4		
			(3.10 pen)	2.40 2.40	B D	5 6		
				3.40 3.40	B D	7 8		
			4.00					
TRIAL PIT ENDS AT 4.00 m.								

Remarks

Stability : All stable
Similarity of faces : All similar
Water pumped : None encountered
Ease of excavation: Easy to moderate
Weather: Fine

Sketch



210 Deg →

Logged by

MW

Scale

1:25

(c) Soil Mechanics (Ver 6.0)

05/06/98 16:08:41

Fig. 27



Initial Pit No. 1F GG12

Sheet 1 of 1

Location No.	8167
Location	NORTHERN AIRFIELD PHASE 2
Carried out for	Speke Garston Regeneration

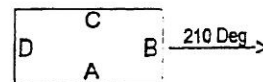
Ground Level	Coordinates	Date
		24/02/98

Description FACE A	Reduced Level	Legend	Depth (Thick)	Samples/Tests			Field Records	
				Depth	Sample			Test
					Type	No.		
Loose dark brown silty SAND with occasional subangular to subrounded gravel of mixed lithology.			(0.40)					
(TOPSOIL)			0.40					
			0.60	B	1			
			0.60	D	2			
			1.60	B	3			
			1.60	D	4			
Firm orange brown sandy CLAY with pockets of grey sand and occasional subangular to rounded gravel of mixed lithologies.			(3.60 pen)					
1.00m, becoming stiff and extremely closely fissured.			2.60	B	5			
(GLACIAL DEPOSITS)			2.60	D	6			
3.00m, becoming stiff to very stiff.			3.60	B	7			
			3.60	D	8			
TRIAL PIT ENDS AT 4.00 m.			4.00					

Remarks

Stability : All stable
Similarity of faces : All similar
Water pumped : None encountered
Ease of excavation: Easy to hard
Weather: Fine

Sketch



Logged by

MW

Scale
1:25

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05/06/98 16:10:00

Fig. 37



Equipment & Methods Window sampling, 60mm diameter to 1.00m, then 36mm diameter to 2.00m.		Location No. 8167		Location NORTHERN AIRFIELD PHASE 2	
Carried out for Speke Garston Regeneration		Ground Level -----		Coordinates Date 22/02/98	

Description	Reduced Level	Legend	Depth (Thick)	Samples/Tests			Field Records
				Depth	Sample		
					Type	No.	
TOPSOIL			(0.10) 0.10				
Dark brown slightly fine to medium SAND. (QUATERNARY BLOWN SAND)			(0.35) 0.45	0.10 - 0.40	D	1	
Brown slightly silty fine to medium SAND. (QUATERNARY BLOWN SAND)			(0.25) 0.70				
				0.70 - 1.00	D	2	
Grey slightly sandy CLAY with occasional fine gravel of basalt and sandstone. Below 1.00m, becoming sandy with occasional pockets of fine to medium sand. (GLACIAL DEPOSITS)			(1.30 pen) 1.20 - 1.50		D	3	
				1.60 - 2.00	D	4	
BOREHOLE ENDS AT 2.00 m.			2.00				

Remarks	Logged by
	MRD
	Scale
	1:25

Notes:

Materials are described in accordance with Appendices. For explanation of symbols and abbreviations see Figure 1.

(c) Soil Mechanics (Ver 6.0)
04/06/98 15:31:08

Fig. 90



Equipment & Methods Window sampling, 60mm diameter to 1.00m, then 36mm diameter to 2.00m.		Location No. 8167 Location NORTHERN AIRFIELD PHASE 2	
Carried out for Speke Garston Regeneration		Ground Level -----	Coordinates Date 22/02/98

Description	Reduced Level	Legend	Depth (Thick)	Samples/Tests			Field Records
				Depth	Sample Type No.	Test	
TOPSOIL			(0.10) 0.10				
Brown slightly silty fine to medium SAND. (QUATERNARY BLOWN SAND)			(0.45)	0.10 - 0.40	D 1		
Reddish brown sandy CLAY with a little subangular to subrounded fine to medium gravel of sandstone, basalt and quartzite. (GLACIAL DEPOSITS)			0.55				
				0.80 - 1.00	D 2		
			(1.45 pen)	1.20 - 1.50	D 3		
				1.60 - 2.00	D 4		
BOREHOLE ENDS AT 2.00 m.			2.00				

Remarks	Logged by MRD
	Scale 1:25
	Fig. 91

Notes:
Materials are described in accordance with Appendices. For explanation of symbols and abbreviations see Figure 1.

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04/06/98 15:31:13



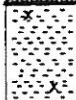
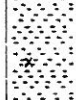
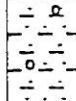
Equipment & Methods Window sampling, 60mm diameter to 1.00m, then 36mm diameter to 2.00m	Location No. 8167 Location NORTHERN AIRFIELD PHASE 2
Carried out for Speke Garston Regeneration	Ground Level -----
Coordinates Date 22/02/98	

Description	Reduced Level	Legend	Depth (Thick)	Samples/Tests			Field Records	
				Depth	Sample			Test
					Type	No.		
TOPSOIL			(0.10)					
Dark brown slightly silty fine to medium SAND with rare subangular fine to medium gravel of slag.			0.10	0.00 - 0.30	D	1		
(MADE GROUND)			(0.25)					
			0.35					
Brown slightly silty fine to medium SAND. Rare subrounded fine to coarse gravel.			(1.35)	0.80 - 1.00	D	2		
(QUATERNARY BLOWN SAND)								
Reddish brown sandy CLAY with occasional subangular to subrounded fine to medium gravel of sandstone and quartzite.			1.70	1.30 - 1.60	D	3		
(GLACIAL DEPOSITS)			(0.30 pen)	1.70 - 2.00	D	4		
BOREHOLE ENDS AT 2.00 m.			2.00					

Remarks 	Logged by MRD Scale 1:25 Fig. 93
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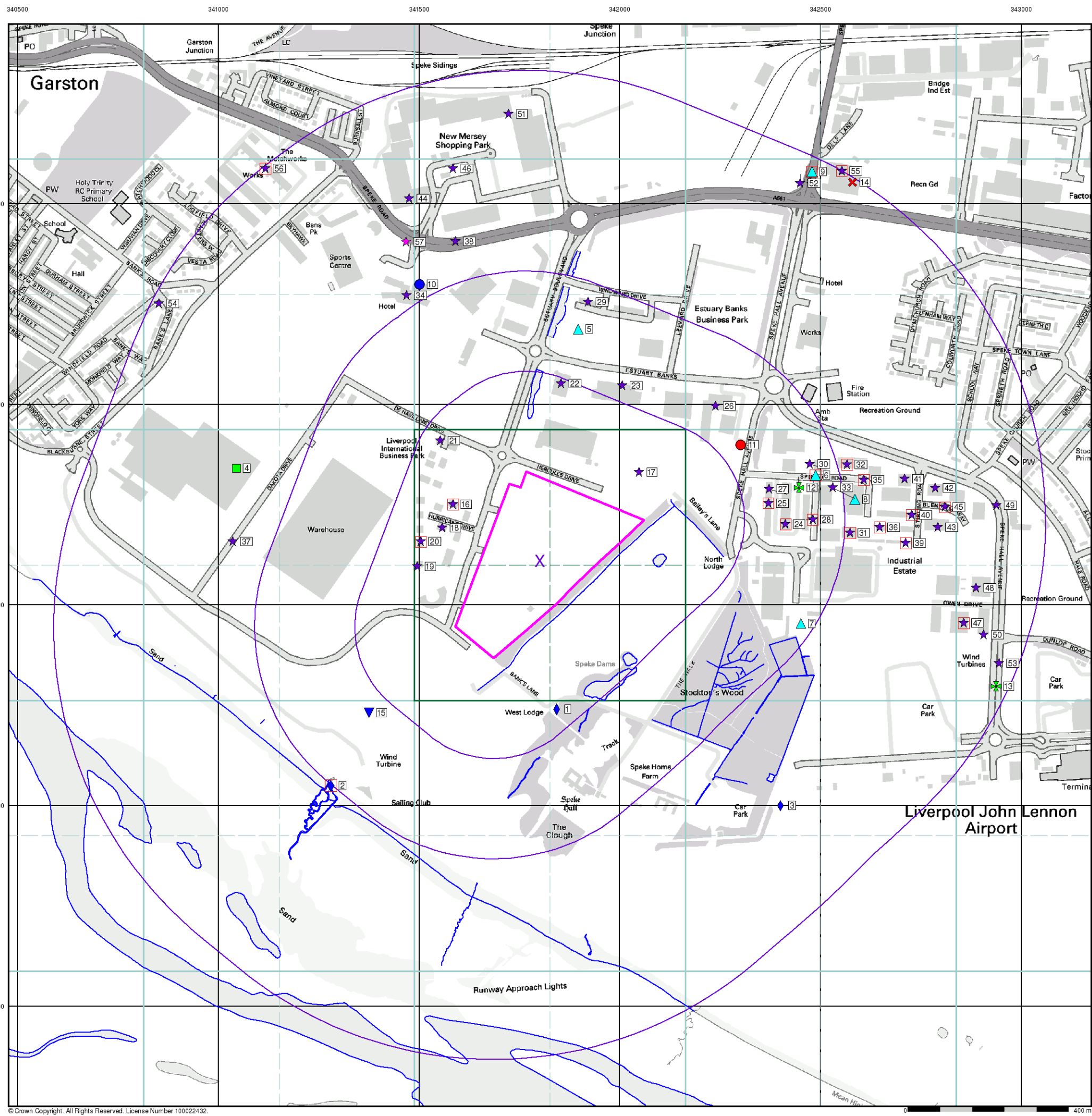
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Equipment & Methods Window sampling, 60mm diameter to 1.00m, then 36mm diameter to 2.00m.	Location No. 8167 Location NORTHERN AIRFIELD PHASE 2							
Carried out for Speke Garston Regeneration	Ground Level -----	Coordinates Date 20/01/98						
Description	Reduced Level	Legend	Depth (Thick)	Samples/Tests			Field Records	
				Depth	Sample			Test
Type	No.							
CONCRETE CORING			(0.15) 0.15 (0.15) 0.30	0.15 - 0.30	D	1		
Dark grey angular fine to coarse GRAVEL of brick and clinker with a little fine to coarse sand.								
(MADE GROUND)			(0.80)					
Dark grey slightly silty fine to medium SAND.				0.80 - 1.00	D	2		
Below 0.50m, becoming brown.			1.10					
(QUATERNARY BLOWN SAND)				1.20 - 1.50	D	3		
Reddish brown sandy CLAY with a little subangular to subrounded fine to medium gravel of various lithologies including sandstone and quartzite.			(0.90 pen)					
(GLACIAL DEPOSITS)				1.60 - 2.00	D	4		
BOREHOLE ENDS AT 2.00 m.			2.00					
Remarks								
Notes:								
Materials are described in accordance with Appendices. For explanation of symbols and abbreviations see Figure 1.								
(c) Soil Mechanics (Ver 6.0)								
04/06/98 15:31:50								
Logged by MRD Scale 1:25 Fig. 94								

APPENDIX IV

Landmark Envirocheck Report (ref: 45538251_1_1)



General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Types at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

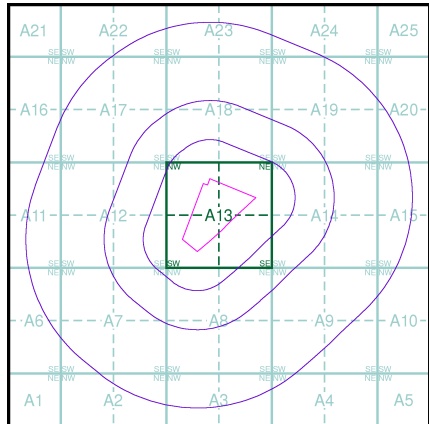
Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

Site Sensitivity Map - Slice A



Order Details

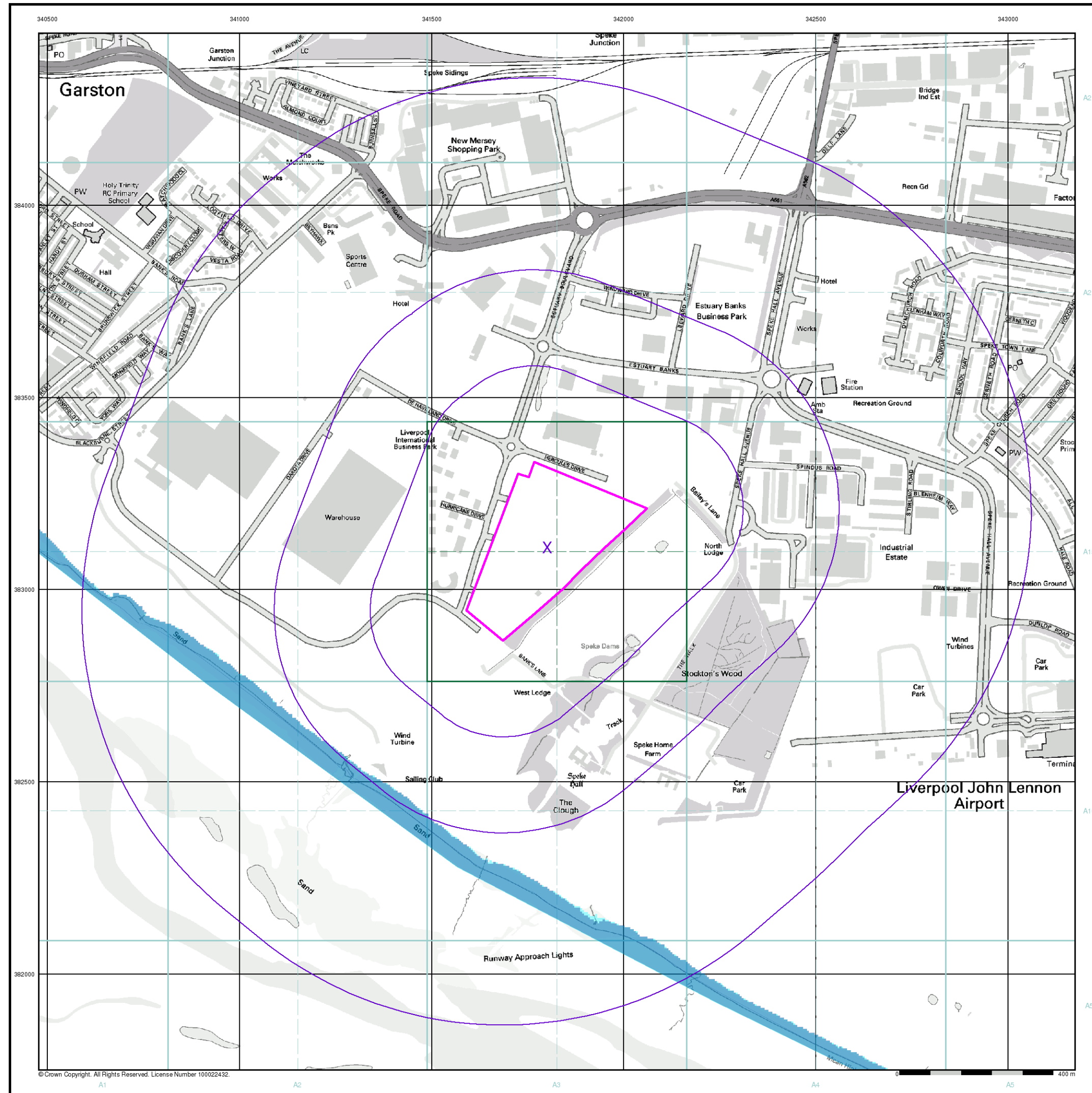
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Customer Ref: 13-249
National Grid Reference: 341800, 383110
Slice: A
Site Area (Ha): 10.46
Search Buffer (m): 1000

Site Details

Hercules Drive, Speke, LIVERPOOL, L24 8AD



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Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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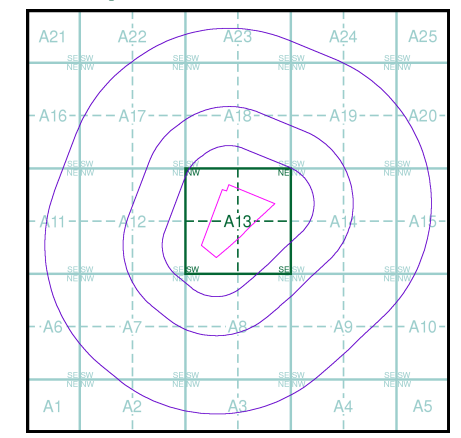
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Agency and Hydrological (Flood)

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- Area Benefiting from Flood Defence
- Flood Water Storage Areas
- Flood Defence

Flood Map - Slice A



Order Details

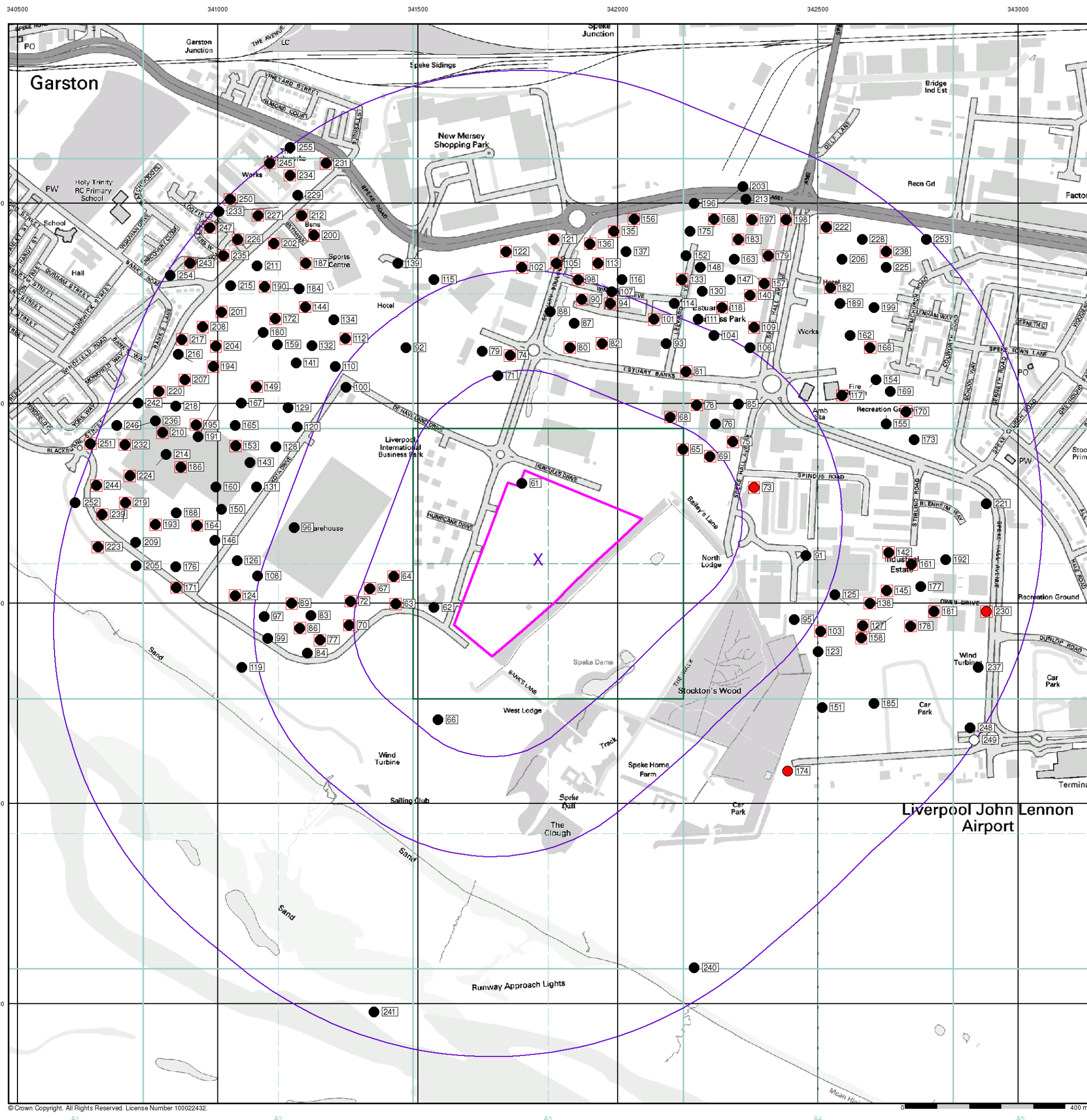
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Customer Ref: 13-249
National Grid Reference: 341800, 383110
Slice: A
Site Area (Ha): 10.46
Search Buffer (m): 1000

Site Details

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General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

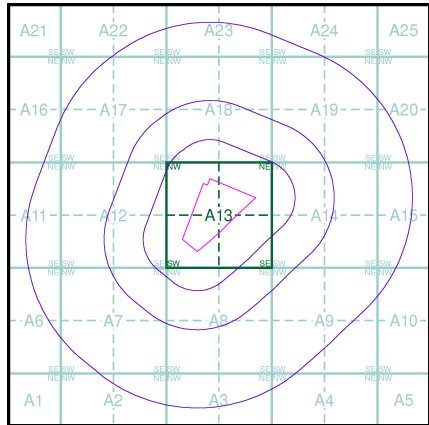
Agency and Hydrological (Boreholes)

- BGS Borehole Depth 0 - 10m
- BGS Borehole Depth 10 - 30m
- BGS Borehole Depth 30m +
- Confidential
- Other

For Borehole information please refer to the Borehole .csv file which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice A



Order Details

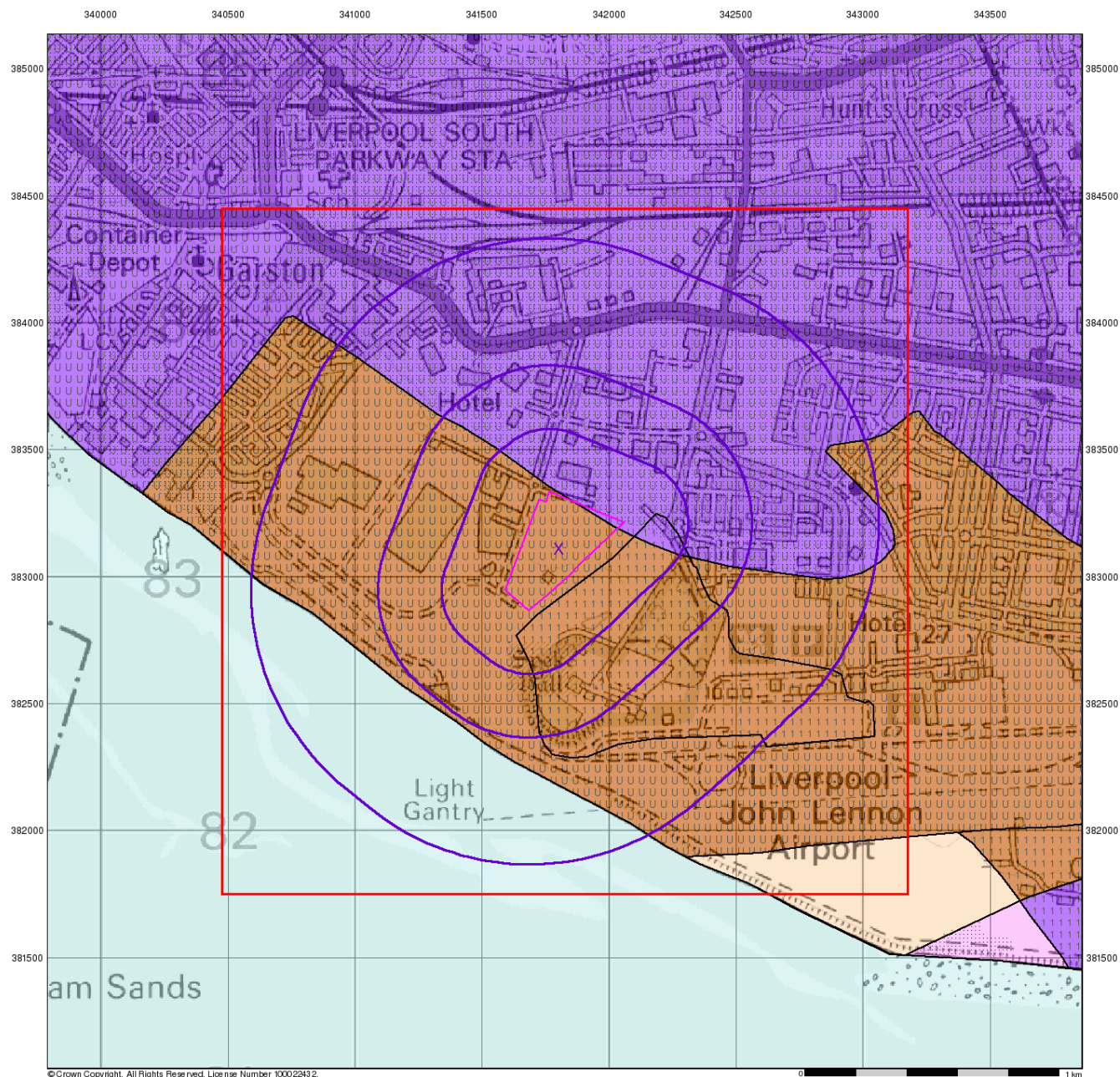
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Customer Ref: 13-249
National Grid Reference: 341800, 383110
Slice: A
Site Area (Ha): 10.46
Search Buffer (m): 1000

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Groundwater Vulnerability

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

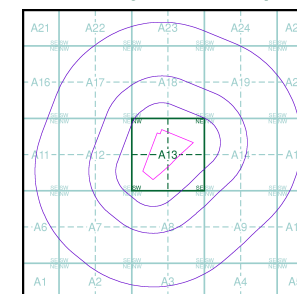
Geological Classes

- Major Aquifer (Highly Permeable)**
- Minor Aquifer (Variably Permeable)**
- Non Aquifer (Negligibly Permeable)**
- Water or Sea**
- Drift Deposit**

Soil Classes

- High (H) 1, 2, 3, U
- Intermediate (I) 1, 2
- Low
- High (H) 1, 2, 3, U
- Intermediate (I) 1, 2
- Low
-
-

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 45538251_1_1
 Customer Ref: 13-249
 National Grid Reference: 341800, 383110
 Slice: A
 Site Area (Ha): 10.46
 Search Buffer (m): 1000

Site Details

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0 1 km



Bedrock Aquifer Designation

General

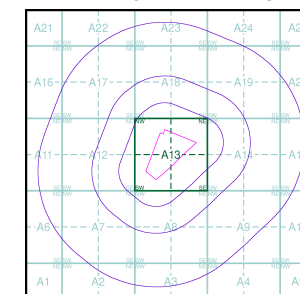
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- Specified Buffer(s)
- X Bearing Reference Point
- Slice
- ⊠ Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice A



Order Details

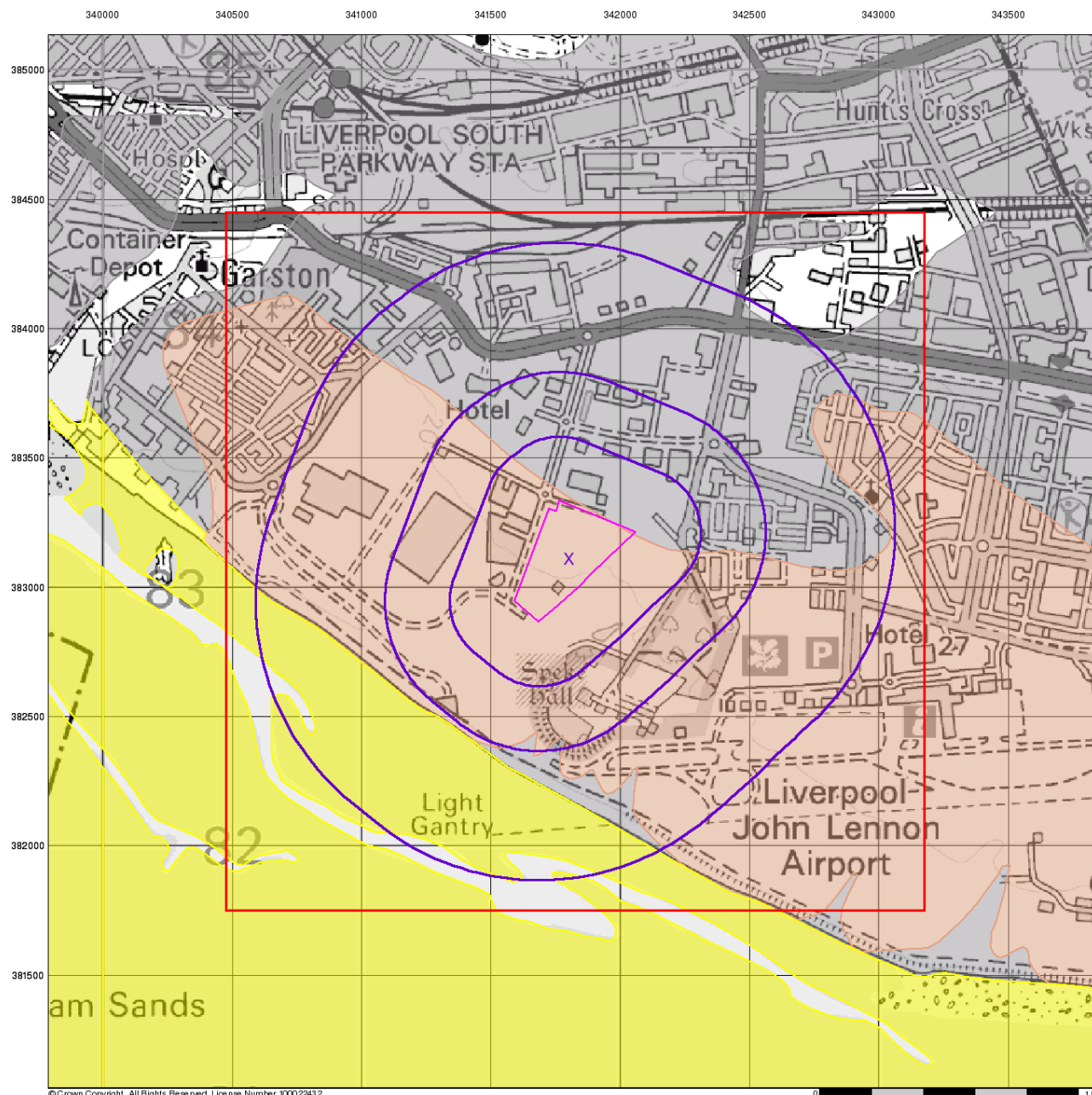
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 Customer Ref: 13-249
 National Grid Reference: 341800, 383110
 Slice: A
 Site Area (Ha): 10.46
 Search Buffer (m): 1000

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Superficial Aquifer Designation

General

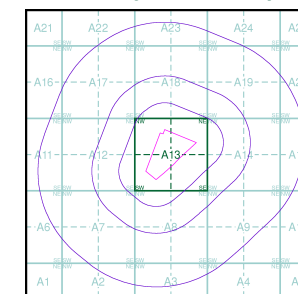
- ◇ Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- Slice
- B Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice A



Order Details

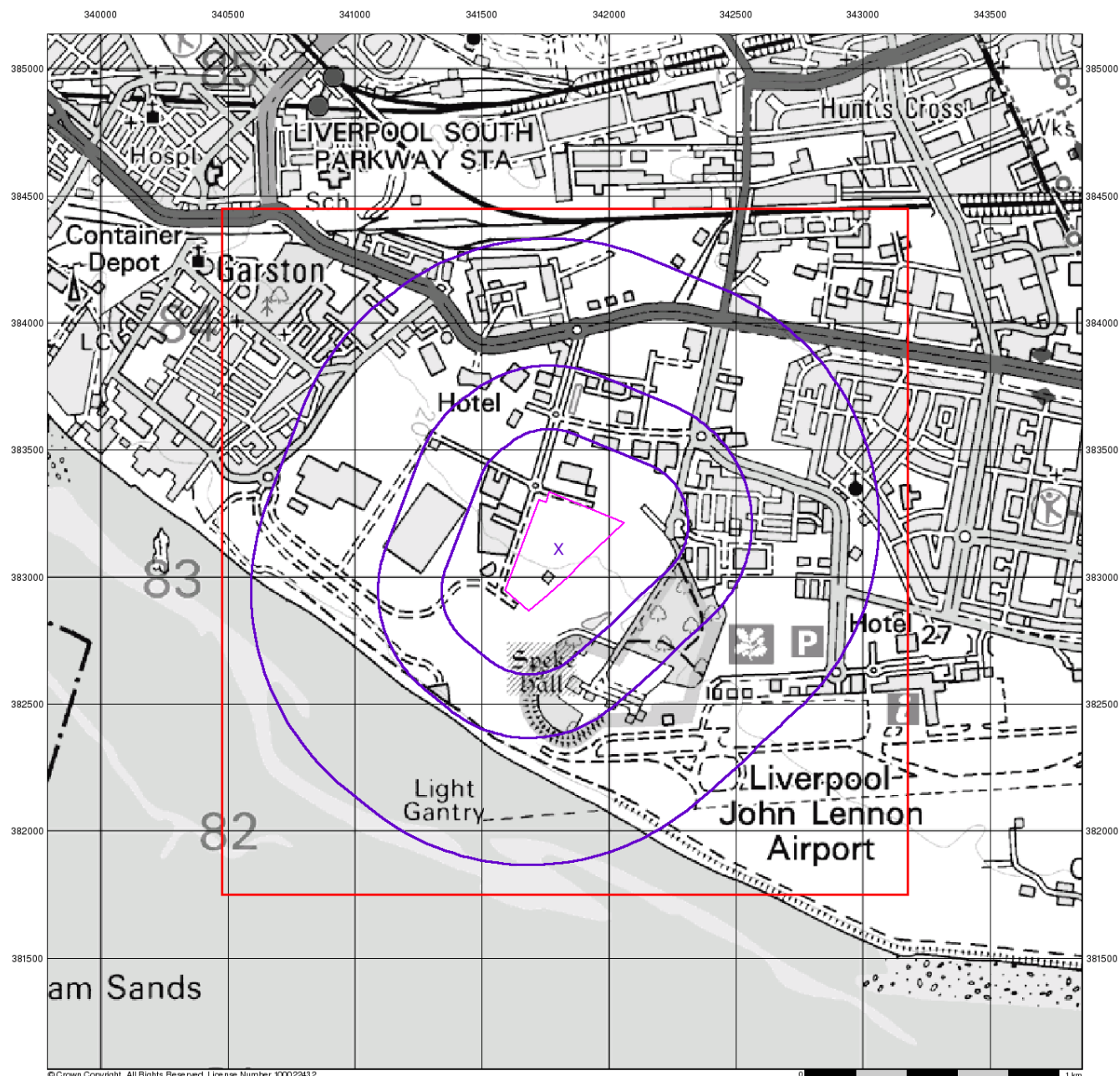
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 Customer Ref: 13-249
 National Grid Reference: 341800, 383110
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0 1 km



Source Protection Zones

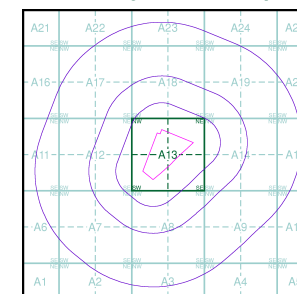
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

- Source Protection Zone I
- Source Protection Zone II
- Source Protection Zone III
- Zone of Special Interest
- Source Protection Zone Borehole

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 45538251_1_1
 Customer Ref: 13-249
 National Grid Reference: 341800, 383110
 Slice: A
 Site Area (Ha): 10.46
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