

Appendix A

Flood risk problem location database

ID	Problem Location	Sub-catchment	Description of problem/comments	Mechanism	Authority responsible	Source	Flooding Dates	Ref (data register)	Council
VR01	Chemical Works	Lower Weaver	FZ map shows risk to chemical works from the Weaver Navigation. Some pump failure issues.	Low-lying in flood plain, backing up	British Waterways	Fluvial and Tidal		23	Vale Royal
VR02	Rocksavage Power Station	Lower Weaver	Extreme flood outline affecting power station area. Pump failure issues as well. Weaver sluices can be opened during flood.	Low-lying in flood plain, backing up	British Waterways	Fluvial and Tidal		23	Vale Royal
VR03	Newtown, Weaver Park Industrial Estate	Lower Weaver	Weaver Navigation from the FZ map. Industrial estate and housing at risk.	Low-lying in flood plain, backing up	British Waterways	Fluvial and Tidal		23	Vale Royal
VR04	Frodsham	Lower Weaver	Ship Street Course (main river). Residential housing on fringe of 1000yr and 100yr FZ. Also Pump failure issues. Caravan site affected by surface water.	Low-lying in flood plain, backing up.	EA	Fluvial and Tidal		23	Vale Royal
VR05	Woodhouses	Lower Weaver	A number of poultry farms and other properties lie in the FZ and south of Straight Length watercourse. Leads to network of tributaries around the Weaver Navigation.	Low-lying in flood plain, backing up	EA	Fluvial and Tidal		23	Vale Royal
VR06	Crowton	Lower Weaver	Crowton Brook (main). FZ outline affecting village. Properties too close to watercourse.	Culvert, capacity	EA	Fluvial		23	Vale Royal
VR07	Mill lane	Lower Weaver	Crowton Brook (non main) runs along B5153, properties along road and farm at risk. FZ map.	Low-lying in flood plain, culvert	Vale Royal	Fluvial		23	Vale Royal
VR08	Kingsley	Lower Weaver	Risk as unnamed watercourse enters village. FZ map	Low-lying in flood plain	Vale Royal	Fluvial		23	Vale Royal
VR09	Ruloe	Lower Weaver	Crowton Brook (Small Brook), main. Risk at properties next to watercourse. FZ map.	Low-lying in flood plain	EA	Fluvial		23	Vale Royal
VR10	Delamere Park	Lower Weaver	Crowton Brook (Small Brook) non main. Watercourse running adjacent to residential area. FZ map.	Low-lying in flood plain	Vale Royal	Fluvial		23	Vale Royal
VR11	Acton Bridge	Lower Weaver	River Weaver from FZ map flooding risk to Acton Bridge.	Low-lying in flood plain	EA	Fluvial		23	Vale Royal
VR12	Winnington northwest	Lower Weaver	Residential housing and light industry at risk. Redevelopment of Chemical works (urban village) 1500 units planned in flood plain.	Low-lying in flood plain	EA	Fluvial		23	Vale Royal
VR13	Northwich	Lower Weaver	Industrial and residential properties shown to be at risk on the FZ map from the River Weaver.	Low-lying in flood plain	EA	Fluvial		23	Vale Royal
VR14	Northwich	Lower Weaver and Dane	North to south of town through centre at risk, major A roads also at risk A553 and A559. Residential, commercial and industrial from the Dane and Weaver. Ref 50= Weaver navigation capacity problems, possible sewer and runoff flooding as well. Northwich Vision plans major re-development of Northwich around the rivers Weaver and Dane.	Low-lying in flood plain	EA	Fluvial and Sewer	1919, 1925, 1940, 1946 (326 props), 1960, 1964, 1977.... Oct 2000 (6 props) and June 2001 (7props).	23 and 53	Vale Royal
VR15	Winsford	Lower Weaver	Weaver Navigation flows through town, risk to properties from FZ map. Winsford Flash (subsidence lake south of Winsford) used by sailing club but is being silted up. It is seen as an asset.	Low-lying in flood plain	EA	Fluvial		23	Vale Royal
VR16	Sutton CP, Meadow Gate Farm	Lower Weaver	Weaver Navigation FZ 1000 and 100 outline mixed. Some industrial and some housing.	Low-lying in flood plain	British Waterways			23	Vale Royal
VR17	Comberbach	Peover Eye	Cogshall Brook runs beside properties at risk on FZ map	Low-lying in flood plain	EA	Fluvial		23	Vale Royal
VR18	Wincham chemical works	Peover Eye	Properties at risk from Wade Brook. A530 also at risk. FZ map	Culvert	Vale Royal	Fluvial		23	Vale Royal
VR19	Helsby	Lower Weaver	Works area at risk from Hornsmill Brook and Hoolpool gutter flooding. From FZ map. A FRA here concluded there was no risk.		EA	Fluvial		23	Vale Royal
VR20	Peck Mill	Lower Weaver	Peckmill brook and Moor's brook risk of flooding several farms. From FZ map.	Low-lying in flood plain	Ellesmere Port and Neston	Fluvial		23	Vale Royal

Appendix B

Data Provided By The Local Planning Authority

VRBC Local Plan Allocations, Development Monitoring Information and Potential LDF Sites

Land use	Official Reference	FM Reference	Location				Constrained Potential	Coordinates	Status
Housing	H2.1	VLH1	Winnington/ Wallerscote Urban Village		650		1200	364100E 375000N (N53:16:15 W2:32:23)	A
	H2.2	VLH2	Winsford Gateway				80	365399E 366500N (N53:11:40 W2:31:10)	A
	H2.3	VLH3	Barons Quay Development Area, Northwich Town Centre		120		220	365783E 374051N (N53:15:44 W2:30:52)	A
	H2.4	VLH4	Marina Development Area, Northwich Town Centre		56		156	365805E 373464N (N53:15:25 W2:30:51)	A
	H2.5	VLH5	County Council Office Site, Northwich Town Centre		20		20	365576E 373846N (N53:15:38 W2:31:03)	A
	H2.6	VLH6	British Waterways Site, Northwich Town Centre				56	365576E 373846N (N53:15:38 W2:31:03)	A
	H2.7	VLH7	Lock Street, Northwich Town Centre		128		128	365700E 373800N (N53:15:36 W2:30:56)	A
	H2.8	VLH8	Memorial Hall, Northwich Town Centre		15		65	366148E 373837N (N53:15:38 W2:30:32)	A
	H2.9	VLH9	West of Old Warrington Rd, Northwich Town Centre		133		133	366422E 374279N (N53:15:52 W2:30:18)	A
	H2.10	VLH10	Land West of Queen Street, Northwich Town Centre		100		171	365805E 373464N (N53:15:25 W2:30:51)	A
	H2.11	VLH11	Land adjacent Victoria Bridge, Northwich Town Centre				20	365576E 373846N (N53:15:38 W2:31:03)	A
Employment	Official Reference	FM Reference	Location				Hectares	Coordinates	
	E5.1	VLE1	Land at Griffiths Road adjacent to Lostock Works				1.84	368582E 374669N (N53:16:05 W2:28:21)	A
	E5.2	VLE2	Land at Lostock Works Railway Sidings				7.68	368126E 374390N (N53:15:56 W2:28:46)	A
	E5.3	VLE3	Land at Lostock Works House				1.52	368126E 374390N (N53:15:56 W2:28:46)	A
	E5.4	VLE4	Sits of engineering works, Winnington Avenue				5.53	364190E 374366N (N53:15:54 W2:32:18)	A
	E5.5	VLE5	Winnington and Wallerscote Urban Village				5.3	364100E 375000N (N53:16:15 W2:32:23)	A
	E5.6	VLE6	Northwich Town Centre				2.2	365576E 373846N (N53:15:38 W2:31:03)	A
	E5.7	VLE7	Land to the south and west of Lostock Gralam Railway Station				0.67		
	E5.8	VLE8	Land on Denton Drive Industrial Estate				0.22		
	E5.9	VLE9	Redundant depot, Griffiths Rd				1.36	368582E 374669N (N53:16:05 W2:28:21)	A
	E5.10	VLE10	Land off Middlewich Rd				3.95	367378E 373576N (N53:15:29 W2:29:26)	A
	E5.11	VLE11	Land at Church Street/Overway				0.28		
	E5.12	VLE12	Land to west and rear of Brighton Belle Public House				0.5		
	E5.13	VLE13	Land off Deakins Rd, Wharton Green				3.05	366072E 367897N (N53:12:25 W2:30:34)	A
	E5.14	VLE14	Land West of Road One, south of Bostock Rd				14.2	366452E 367842N (N53:12:24 W2:30:13)	A
	E5.15	VLE15	Land on Eastern Industrial Estate				6.66	366600E 367382N (N53:12:09 W2:30:05)	A
	E5.16	VLE16	Land on Woodford Park Industrial Estate				6.36	363059E 365414N (N53:11:04 W2:33:15)	A
	E5.17	VLE17	Soot Hill, Anderton				1.97	364397E 375239N (N53:16:23 W2:32:07)	A
	E5.18	VLE18	Land at Runcorn Road				0.95		
	E5.19	VLE19	Land at junction of A556 and Manchester Rd (Lostock Triangle)				17.12	369060E 374947N (N53:16:14 W2:27:55)	A
	E5.20	VLE20	Land at BICC, Helsby to be redeveloped				8.75	348342E 374523N (N53:15:55 W2:46:33)	A
	E5.21	VLE21	Land on Gadbrook Employment site (has planning permission as at 31 March 2004)				11.4	367877E 372404N (N53:14:52 W2:28:58)	A
Land Use	Official Reference	FM Reference	Location				Constrained Potential	Coordinates	Status
		VLE22	Whitley Brook Farm, Marsh Lane, Dutton				1.78	36360061, 378999	P
		VLE23	Desley Heath Farm, Cogshall Lane,				1.08		P
		VLE24	Land Adjacent to Site of Jack Richards and Son, Griffiths Road, Lostock Gralam, Northwich				1.42		P
		VLE25	Hartford Manor, Greenbank Lane, Northwich				2.10	364677, 372492	P
		VLE26	Brunner Mond, Winnington Lane, Northwich				2.30		P
	4245/00	VLE27	Land off Wallerscote Road, Northwich				1.12	363865, 373301	P
		VLE28	Land at Manchester Road, Northwich				0.70	367542, 374308	P
		VLE29	Land at Rudheath Primary School				0.21	368266, 372796	P
		VLE30	Manor Farm, Holmes Chapel Road, Sproston				0.17	373056, 366978	P
		VLE31	The Garden Land, Wincham Lane, Wincham				0.53	368053, 375616	P
		VLE32							
		VLE33	Rolls Royce, Barlow Drive, Winsford				2.21		

		VLE34	Roberts Bakery, School Road, Rudheath.				7.35		P
		VLE35	Flaxyards, Eaton Lane, Tarporley				1.36		P
		VLE36	Land And Building At The Corner Of Wincham Avenue, Wincham				1.77		P
		VLE37	Units 1-4, Wincham Lane, Wincham.				1.12		P
		VLE38	Rowley's of Northwich, Wincham Lane, Wincham				1.03		P
		VLE39							
		VLE40	Land off Smokehall Lane, Winsford				4.18	366230, 367793	P
Land Use	Official Reference	FM Reference	Location				Number of dwellings	Coordinates	Status
	HL/NW084	VLH12	land and buildings formerly known as Hobsons Nursery, Spencer Street				8	365481:373215	P
	HL/FH020	VLH13	Gleaves Builders Yard, off Church Street				12	357876:377810	P
	HL/NW057	VLH14	Jack Lane Farm, Moulton				6	366066:369482	P
	HL/NW008	VLH15	Corner of Daisy Bank Lane				14	364367, 375209	P
	HL/NW085	VLH16	Leftwich Farm 2 Dobells Road				5	365829:372454	P
	HL/NW023	VLH17	Land to the rear of the Royal British Legion Club, Meadow Drive				12	36343:375347	P
	HL/NW080	VLH18	land on the south west side of Winnington Lane				24	364410:374396	P
	HL/NW081	VLH19	Water Street				28	365988:373407	P
	HL/TP011	VLH20	Ardern Estate House, Cobblers Cross Lane				15	356037:362416	P
	HL/NW091	VLH21	Canalside Farm, King Street				20	368372:373061	P
	HL/NW004	VLH22	Homelands, London Road				1	374833:371412	P
	HL/NW005	VLH23	Homelands, London Road				1	374833:371412	P
	HL/FH034	VLH24	The Old Hall, Vicarage Lane				2	349193:375791	P
	HL/WF015	VLH25	Cassia Grange, Cassia Green, Marton				1	362085:368140	P
	HL/NW063	VLH26	118 Chester Rd				1	364879, 373320	P
	HL/NW096	VLH27	Sandy Lane Equestrian Centre				1	361071:374936	P
	HL/TP021	VLH28	52 High Street				5	355395:362567	P
	HL/TP010	VLH29	Castle Hill Farm				6	353440:367719	P
	HL/WF050	VLH30	24 John Street				6	364442:366072	P
	HL/NW133	VLH31	Land off Pullman Drive				7	367255:373990	P
	HL/NW066	VLH32	the Council House, Church Rd				9	366517:373722	P
	HL/NW131	VLH33	Northwich United Reform Church, Castle Street				14	365343:373519	P
	HL/FH015	VLH34	land at Chapelfields and north of Main St				66	351457, 378011	P
Land Use	Official Reference	FM Reference	Location				Hectares	Coordinates	Status
Retail	HL/WF035	VLR1	24-26 High Street, Northwich				648.75 m squared		U
		VLR2	Proposed Development at Winnington Lane and Winnington Avenue, Northwich, Cheshire				1200 residential units		U

Appendix C

Flood Risk Matrix For Sites

Vale Royal BC

ID	Allocation name and reference	Allocation size ha	Proposed type	Major? (>1ha)	Flood Zone	Defended and SoP	Risk Profile	Other Influences - brownfield, watercourses, frpl, defences, canals, res,	Current allocation (as per Table D3, PPS25)	Recommendations				
VLH1	Winnington/ Wallerscote Urban Village	58.4	Housing	Yes						See VLE5				
VLH2	Winsford Gateway	1.9	Housing	Yes	1	No	N/A	Greenfield site Ponds, drains, watercourses (not Main) are on the site.		Vulnerability to flooding from other sources (watercourses, ponds) as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA. See Annex E of PPS25 for minimum requirements and Table 8.2 in the SFRA for drainage requirements.	1 low			
VLH3	Barons Quay Development Area, Northwich Town Centre	12.4	Housing	Yes	All	D80	Extreme	Within historic flood events for Northwich & Winnington recorded between 1919 & 2001. Brownfield Adjacent to a Main River.	Development should not be permitted	All development proposals in this zone should be accompanied by a FRA, See Annex E of PPS25 for minimum requirements. Direct less vulnerable development towards the higher risk flood zone. The Environment Agency must be consulted as the development is within 20m of a main river.	3a ext	3b ext	2 ext	1 low
VLH4	Marina Development Area, Northwich Town Centre	2	Housing	Yes	F3b	D80	Significant	Within historic flood events for Northwich & Winnington recorded between 1919 & 2001. Brownfield Adjacent to a Main River (Dane).	Development should not be permitted	All development proposals in this zone should be accompanied by a FRA, See Annex E of PPS25 for minimum requirements. This is a high hazard high risk of flooding locations. Every effort should be made to develop less vulnerable buildings here. The Environment Agency must be consulted as the development is within 20m of a main river.	3b sig			
VLH5	County Council Office Site, Northwich Town Centre	0.7	Housing	No	3b, 3a, 2	D50	Extreme	Within historic flood events for Northwich & Winnington recorded between 1919 & 2001. Brownfield Adjacent to a Main River (Dane).	Exception Test required	All development proposals in this zone should be accompanied by a FRA, See Annex E of PPS25 for minimum requirements. Direct less vulnerable development towards the higher risk flood zone. The Environment Agency must be consulted as the development is within 20m of a main river.	3b ext	3a ext	2 ext	
VLH6	British Waterways Site, Northwich Town Centre	1.3	Housing	Yes	All	D25	Significant	Within historic flood events for Northwich & Winnington recorded between 1919 & 2001. Brownfield Adjacent to a Main River (Weaver).	Development should not be permitted	All development proposals in this zone should be accompanied by a FRA, See Annex E of PPS25 for minimum requirements. Direct less vulnerable development towards the higher risk flood zone. The Environment Agency must be consulted as the development is within 20m of a main river.	3b sig	3a sig	2 sig	1 low
VLH7	Lock Street, Northwich Town Centre	1.8	Housing	Yes	All	D50	Extreme	Within historic flood events for Northwich & Winnington recorded between 1919 & 2001. Greenfield Adjacent to a Main River and a drain passes through the site.	Development should not be permitted	All development proposals in this zone should be accompanied by a FRA, See Annex E of PPS25 for minimum requirements. Direct less vulnerable development towards the higher risk flood zone. The Environment Agency must be consulted as the development is within 20m of a main river.	3b ext	3b ext	2 ext	1 low

ID	Allocation name and reference	Allocation size ha	Proposed type	Major? (>1ha)	Flood Zone	Defended and SoP	Risk Profile	Other Influences - brownfield, watercourses, frpl, defences, canals, res,	Current allocation (as per Table D3, PPS25)	Recommendations				
VLH8	Memorial Hall, Northwich Town Centre	0.9	Housing	No	2	D80	Varies	Within historic flood events for Northwich & Winnington recorded between 1919 & 2001. Brownfield Adjacent to a Main River (Dane).	Exception Test required	All development proposals in this zone should be accompanied by a FRA, See Annex E of PPS25 for minimum requirements. Flood return period is low but hazard varies, locate less vulnerable in locations with lower hazard.. The Environment Agency must be consulted as the development is within 20m of a main river.	2 ext	2 sig	2 mod	
VLH9	West of Old Warrington Rd, Northwich Town Centre	4.1	Housing	Yes	1	None	None	Brownfield	Development is appropriate	Vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA. See Annex E of PPS25 for minimum requirements and Table 8.2 in the SFRA for drainage requirements.	1 low			
VLH10	Land West of Queen Street, Northwich Town Centre	1.8	Housing	Yes	3b, 3a, 2	D80	Significant	Within historic flood events for Northwich & Winnington recorded between 1919 & 2001. Brownfield Adjacent to a Main River.	Development should not be permitted	All development proposals in this zone should be accompanied by a FRA, See Annex E of PPS25 for minimum requirements. Direct less vulnerable development towards the higher risk flood zone. The Environment Agency must be consulted as the development is within 20m of a main river.	3b sig	3a sig	2 sig	
VLH11	Land adjacent Victoria Bridge, Northwich Town Centre	0.4	Housing	No	2	D50	Extreme	Within historic flood events for Northwich & Winnington recorded between 1919 & 2001. Brownfield Adjacent to a Main River (Dane).	Exception Test required	All development proposals in this zone should be accompanied by a FRA, See Annex E of PPS25 for minimum requirements. Flood return period is low but hazard is high, locate less vulnerable development here. The Environment Agency must be consulted as the development is within 20m of a main river.	2 ext			
VLE1	Land at Griffiths Road adjacent to Lostock Works	1.84	Employment	Yes	1	None	None	Brownfield/greenfield Adjacent to canal at the the same level thus possible flooding from the canal must be taken into account	Development is appropriate	All development proposals in this zone should be accompanied by a FRA, See Annex E of PPS25 for minimum requirements. The water-compatible and less vulnerable uses of land in Table D.2 of PPS25 are appropriate in this	1 low			
VLE2	Land at Lostock Works Railway Sidings	7.68	Employment	Yes	2 and 3	None	None	Brownfield/greenfield Main river runs through site	Development is appropriate	All development proposals in this zone should be accompanied by a FRA, See Annex E of PPS25 for minimum requirements. The water-compatible and less vulnerable uses of land in Table D.2 of PPS25 are appropriate in this zone. The Environment Agency must be consulted as the development is within 20m of a main river.	2	3		
VLE3	Land at Lostock Works House	1.52	Employment	Yes	2 and 3	None	None	Brownfield Within 20m of Main river	Development is appropriate	All development proposals in this zone should be accompanied by a FRA, See Annex E of PPS25 for minimum requirements. The water-compatible and less vulnerable uses of land in Table D.2 of PPS25 are appropriate in this zone. The Environment Agency must be consulted as the development is within 20m of a main river.	2	3		

ID	Allocation name and reference	Allocation size ha	Proposed type	Major? (>1ha)	Flood Zone	Defended and SoP	Risk Profile	Other Influences - brownfield, watercourses, frpl, defences, canals, res,	Current allocation (as per Table D3, PPS25)	Recommendations				
VLE4	Sits of engineering works, Winnington Avenue	5.53	Employment	Yes	1	None	None	Brownfield	Development is appropriate	Vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA. See Annex E of PPS25 for minimum requirements and Table 8.2 in the SFRA for drainage requirements.	1 low			
VLE5	Winnington and Wallerscote Urban Village	5.3	Employment	Yes	All	D50	Low to Extreme	Within historic flood events for Northwich & Winnington recorded between 1919 & 2001. Brownfield Adjacent to a Main River and a number of drains and the River Weaver pass through the site. Close to and below the Trent and Mersey Canal	Development should not be permitted	All development proposals in this zone should be accompanied by a FRA, See Annex E of PPS25 for minimum requirements. Flood return period and risk profile varies. Split the allocation according to flood zones and flood hazard. Flood risk from the Trent and Mersey Canal should be further investigated. The Environment Agency must be consulted as the development is within 20m of a main river.	2 sig	2 ext		
VLE6	Northwich Town Centre (POINT DATA)	2.2	Employment	Yes	None, possibly all depending on site boundary	None	None or extreme depending on site boundary	Likely brownfield/greenfield. Close to River Weaver		See Northwich town centre potential future allocations				
VLE7	Land to the south and west of Lostock Gralam Railway Station	0.67	Employment	No	1	None	None	Brownfield Standing water close by	Development is appropriate	This is not a major development and the site is not within Flood Zone 2 or 3 or at risk from any other sources of flood risk. All types of development are acceptable and a FRA is not required. Refer to the standard Environment Agency comments on managing surface water drainage (www.pipernetworking.com/floodrisk/operational.html)	1 low			
VLE8	Land on Denton Drive Industrial Estate	1.1 (2 areas)	Employment	Yes	1	None	None	Brownfield Wincham Brook within 25m	Development is appropriate	Vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA. See Annex E of PPS25 for minimum requirements and Table 8.2 in the SFRA for drainage requirements.	1 low			
VLE9	Redundant depot, Griffiths Rd	1.36	Employment	Yes	1	None	None	Brownfield Standing water close by	Development is appropriate	Vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA. See Annex E of PPS25 for minimum requirements and Table 8.2 in the SFRA for drainage requirements.	1 low			
VLE10	Land off Middlewich Rd	3.95	Employment	Yes	1	None	None	Brownfield Adjacent to Wade Brook	Development is appropriate	Vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA. See Annex E of PPS25 for minimum requirements and Table 8.2 in the SFRA for drainage requirements. The Environment Agency must be consulted as the development is within 20m of a main river.	1 low			
VLE11	Land at Church Street/Overway	0.28	Employment	No	1	None	None	Brownfield	Development is appropriate	This is not a major development and the site is not within Flood Zone 2 or 3 or at risk from any other sources of flood risk. All types of development are acceptable and a FRA is not required. Refer to the standard Environment Agency comments on managing surface water drainage (www.pipernetworking.com/floodrisk/operational.html)	1 low			

ID	Allocation name and reference	Allocation size ha	Proposed type	Major? (>1ha)	Flood Zone	Defended and SoP	Risk Profile	Other Influences - brownfield, watercourses, frpl, defences, canals, res,	Current allocation (as per Table D3, PPS25)	Recommendations				
VLE12	Land to west and rear of Brighton Belle Public House	1.1	Employment	Yes	1	None	None	Brownfield	Development is appropriate	Vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA. See Annex E of PPS25 for minimum requirements and Table 8.2 in the SFRA for drainage requirements.	1 low			
VLE13	Land off Deakins Rd, Wharton Green	3.05	Employment	Yes	1	None	None	Brownfield	Development is appropriate	Vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA. See Annex E of PPS25 for minimum requirements and Table 8.2 in the SFRA for drainage requirements.	1 low			
VLE14	Land West of Road One, south of Bostock Rd	14.6	Employment	Yes	1	None	None	Greenfield	Development is appropriate	Vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA. See Annex E of PPS25 for minimum requirements and Table 8.2 in the SFRA for drainage requirements.	1 low			
VLE15	Land on Eastern Industrial Estate	14.5 (9 areas)	Employment	Yes	1	None	None	Brownfield Southeastern & northeastern areas adjacent to drains & areas of standing water	Development is appropriate	Vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA. See Annex E of PPS25 for minimum requirements and Table 8.2 in the SFRA for drainage requirements. Possibly at flood risk due to critical drainage problems (or has been notified to the local planning authority by the Environment Agency). A full FRA will therefore be required, see Annex E of PPS25 for minimum requirements.	1 low			
VLE16	Land on Woodford Park Industrial Estate	8	Employment	Yes	1	None	None	Greenfield Drains & standing water on site	Development is appropriate	Vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA. See Annex E of PPS25 for minimum requirements and Table 8.2 in the SFRA for drainage requirements. Possibly at flood risk due to critical drainage problems (or has been notified to the local planning authority by the Environment Agency). A full FRA will therefore be required, see Annex E of PPS25 for minimum requirements.	1 low			
VLE17	Soot Hill, Anderton	1.97	Employment	Yes	3b	D80	Low to significant	Within historic flood events for Northwich & Winnington recorded between 1919 & 2001. Brownfield Adjacent to a Main River and a drain passes through the site. Close to and below the Trent and Mersey Canal	Development should not be permitted	All development proposals in this zone should be accompanied by a FRA, See Annex E of PPS25 for minimum requirements. Lower vulnerability development should be directed towards the low hazard locations. Risk from all sources to be assessed including risk from River Weaver, the drain that passes through	3b low	3b sig	3a low	3a sig

ID	Allocation name and reference	Allocation size ha	Proposed type	Major? (>1ha)	Flood Zone	Defended and SoP	Risk Profile	Other Influences - brownfield, watercourses, frpl, defences, canals, res,	Current allocation (as per Table D3, PPS25)	Recommendations				
VLE18	Land at Runcorn Road	0.95	Employment	No	2	D80	Significant	Within historic flood events for Northwich & Winnington recorded between 1919 & 2001. Brownfield Adjacent to a Main River. Close to and below the Trent and Mersey Canal	Development should not be permitted	All development proposals in this zone should be accompanied by a FRA, See Annex E of PPS25 for minimum requirements. Risk from all sources to be assessed including risk from River Weaver and the Trent and Mersey Canal	2 sig			
VLE19	Land at junction of A556 and Manchester Rd (Lostock Triangle)	17.12	Employment	Yes	1	None	None	Greenfield Drains & standing water on site	Development is appropriate	Vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA. See Annex E of PPS25 for minimum requirements and Table 8.2 in the SFRA for drainage requirements. Possibly at flood risk due to critical drainage problems (or has been notified to the local planning authority by the Environment Agency). A full FRA will therefore be required, see Annex E of PPS25 for minimum requirements.	1 low			
VLE20	Land at BICC, Helsby to be redeveloped	31.2	Employment	Yes	2 and 3a	None	None	Brownfield Main watercourse - Hornsmill Brook runs through site Standing water and drains on site	Development is appropriate	All development proposals in this zone should be accompanied by a FRA, See Annex E of PPS25 for minimum requirements. The water-compatible and less vulnerable uses of land in Table D.2 of PPS25 are appropriate in this zone. The Environment Agency must be consulted as the development is within 20m of a main river.	2	3a		
VLE21	Land on Gadbrook Employment site (has planning permission as at 31 March 2004)	1.8	Employment	Yes	2 and 3a	None	None	Greenfield Main watercourse - Whitleybrook runs through site	Development is appropriate	All development proposals in this zone should be accompanied by a FRA, See Annex E of PPS25 for minimum requirements. The water-compatible and less vulnerable uses of land in Table D.2 of PPS25 are appropriate in this zone. The Environment Agency must be consulted as the development is within 20m of a main river.	2	3a		
VLE22	Whitley Brook Farm, Marsh Lane, Dutton	1.10	Employment	Yes	2 and 3a	None	None	Brownfield Main watercourse - Whitley Brook runs adjacent to site	Development is appropriate	All development proposals in this zone should be accompanied by a FRA, See Annex E of PPS25 for minimum requirements. The water-compatible and less vulnerable uses of land in Table D.2 of PPS25 are appropriate in this zone. The Environment Agency must be consulted as the development is within 20m of a main river.	2	3a		
VLE23	Desley Heath Farm, Cogshall Lane,	1.10	Employment	Yes						See VLE22				
VLE24	Land Adjacent to Site of Jack Richards and Son, Griffiths Road, Lostock Gralam, Northwich	2.10	Employment	Yes	1	None	None	Brownfield	Development is appropriate	Vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA. See Annex E of PPS25 for minimum requirements and Table 8.2 in the SFRA for drainage requirements.	1 low			
VLE25	Hartford Manor, Greenbank Lane, Northwich	2.10	Employment	Yes						GIS polygon in wrong place				

ID	Allocation name and reference	Allocation size ha	Proposed type	Major? (>1ha)	Flood Zone	Defended and SoP	Risk Profile	Other Influences - brownfield, watercourses, frpl, defences, canals, res,	Current allocation (as per Table D3, PPS25)	Recommendations				
VLE26	Brunner Mond, Winnington Lane, Northwich	2.30	Employment	Yes	F3b	D80	Low to Significant	Within historic flood events for Northwich & Winnington recorded between 1919 & 2001. Brownfield Adjacent to a Main River. Close to and below the Trent and Mersey Canal		All development proposals in this zone should be accompanied by a FRA, See Annex E of PPS25 for minimum requirements. Lower vulnerability development should be directed towards the low hazard locations. Risk from all sources to be assessed including risk from River Weaver, the drain that passes through	3b low	3b sig	3a low	3a sig
VLE27	Land off Wallerscote Road, Northwich (POINT)	1.12	Employment	Yes	1	None	None	Greenfield	Development is appropriate	Vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA. See Annex E of PPS25 for minimum requirements and Table 8.2 in the SFRA for drainage requirements.	1 low			
VLE28	Land at Manchester Road, Northwich	1.60	Employment	Yes	1	None	None	Greenfield Standing water on site	Development is appropriate	Vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA. See Annex E of PPS25 for minimum requirements and Table 8.2 in the SFRA for drainage requirements. Possibly at flood risk due to critical drainage problems (or has been notified to the local planning authority by the Environment Agency). A full FRA will therefore be required, see Annex E of PPS25 for minimum requirements.	1 low			
VLE29	Land at Rudheath Primary School	0.21	Employment	No	1	None	None	Greenfield Adjacent to Trent & Mersey Canal at the same level	Development is appropriate	This is not a major development and the site is not within Flood Zone 2 or 3 or at risk from any other sources of flood risk. All types of development are acceptable and a FRA is not required. Refer to the standard Environment Agency comments on managing surface water drainage (www.pipernetworking.com/floodrisk/operational.html)	1 low			
VLE30	Manor Farm, Holmes Chapel Road, Sproston	0.17	Employment	No	1	None	None	Greenfield	Development is appropriate	This is not a major development and the site is not within Flood Zone 2 or 3 or at risk from any other sources of flood risk. All types of development are acceptable and a FRA is not required. Refer to the standard Environment Agency comments on managing surface water drainage (www.pipernetworking.com/floodrisk/operational.html)	1 low			
VLE31	The Garden Land, Wincham Lane, Wincham (POINT)	0.53	Employment	No	1	None	None	Greenfield	Development is appropriate	This is not a major development and the site is not within Flood Zone 2 or 3 or at risk from any other sources of flood risk. All types of development are acceptable and a FRA is not required. Refer to the standard Environment Agency comments on managing surface water drainage (www.pipernetworking.com/floodrisk/operational.html)	1 low			
VLE32			Employment							The site polygon could not be found				
VLE33	Rolls Royce, Barlow Drive, Winsford	2.21	Employment	Yes	1	None	None	Brownfield Drain runs through the site	Development is appropriate	Vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA. See Annex E of PPS25 for minimum requirements and Table 8.2 in the SFRA for drainage requirements. Possibly at flood risk due to critical drainage problems (or has been notified to the local planning authority by the Environment Agency). A full FRA will therefore be required, see Annex E of PPS25 for minimum requirements.	1 low			

ID	Allocation name and reference	Allocation size ha	Proposed type	Major? (>1ha)	Flood Zone	Defended and SoP	Risk Profile	Other Influences - brownfield, watercourses, frpl, defences, canals, res,	Current allocation (as per Table D3, PPS25)	Recommendations				
VLE34	Roberts Bakery, School Road, Rudheath.	7.35	Employment	Yes	1	None	None	Brownfield Drain runs through the site Adjacent to Trent & Mersey Canal	Development is appropriate	Vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA. See Annex E of PPS25 for minimum requirements and Table 8.2 in the SFRA for drainage requirements. Possibly at flood risk due to critical drainage problems (or has been notified to the local planning authority by the Environment Agency). A full FRA will therefore be required, see Annex E of PPS25 for minimum requirements.	1 low			
VLE35	Flaxyards, Eaton Lane, Tarporley	1.36	Employment	Yes						The site polygon could not be found				
VLE36	Land And Building At The Corner Of Wincham Avenue, Wincham	1.77	Employment	Yes	1	None	None	Brownfield	Development is appropriate	Vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA. See Annex E of PPS25 for minimum requirements and Table 8.2 in the SFRA for drainage requirements.	1 low			
VLE37	Units 1-4, Wincham Lane, Wincham.	1.12	Employment	Yes	1	None	None	Brownfield Adjacent Trent & Mersey Canal at the same level thus possible flooding from the canal must be taken into account	Development is appropriate	Vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA. See Annex E of PPS25 for minimum requirements and Table 8.2 in the SFRA for drainage requirements.	1 low			
VLE38	Rowley's of Northwich, Wincham Lane, Wincham	1.03	Employment	Yes	1	None	None	Brownfield	Development is appropriate	Vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA. See Annex E of PPS25 for minimum requirements and Table 8.2 in the SFRA for drainage requirements.	1 low			
VLE39			Employment							The site polygon could not be found				
VLE40	Land off Smokehall Lane, Winsford	4.18	Employment	Yes	1	None	None	Brownfield	Development is appropriate	Vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA. See Annex E of PPS25 for minimum requirements and Table 8.2 in the SFRA for drainage requirements.	1 low			
VLH12	land and buildings formerly known as Hobsons Nursery, Spencer Street	8 dwellings	Housing	?						The site polygon could not be found				
VLH13	Gleaves Builders Yard, off Church Street	12 dwellings	Housing	?						The site polygon could not be found				
VLH14	Jack Lane Farm, Moulton	6 dwellings	Housing	?						The site polygon could not be found				
VLH15	Corner of Daisy Bank Lane	14 dwellings	Housing	?						The site polygon could not be found				
VLH16	Leftwich Farm 2 Dobells Road	5 dwellings	Housing	?						The site polygon could not be found				
VLH17	Land to the rear of the Royal British Legion Club, Meadow Drive	12 dwellings	Housing	?						The site polygon could not be found				
VLH18	land on the south west side of Winnington Lane	0.4	Housing	No	1	None	None	Brownfield	Development is appropriate	This is not a major development and the site is not within Flood Zone 2 or 3 or at risk from any other sources of flood risk. All types of development are acceptable and a FRA is not required. Refer to the standard Environment Agency comments on managing surface water drainage (www.pipernetworking.com/floodrisk/operational.html).	1 low			

ID	Allocation name and reference	Allocation size ha	Proposed type	Major? (>1ha)	Flood Zone	Defended and SoP	Risk Profile	Other Influences - brownfield, watercourses, frpl, defences, canals, res,	Current allocation (as per Table D3, PPS25)	Recommendations				
VLH19	Water Street	0.4	Housing	No	3a and 2	D80	Significant to Extreme	Within historic flood events for Northwich & Winnington recorded between 1919 & 2001. Brownfield Adjacent to a Main River.		All development proposals in this zone should be accompanied by a FRA, See Annex E of PPS25 for minimum requirements. The flood zone and flood hazard maps should be consulted to allocate development types accordingly. The Environment Agency must be consulted as the development is within 20m of a main river.	3a sig	3a ext	2 sig	2 ext
VLH20	Ardern Estate House, Cobblers Cross Lane	15 dwellings	Housing	?						The site polygon could not be found				
VLH21	Canalside Farm, King Street	20 dwellings	Housing	?						The site polygon could not be found				
VLH22	Homelands, London Road	2.1	Housing	Yes	1	None	None	Brownfield	Development is appropriate	Vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA. See Annex E of PPS25 for minimum requirements and Table 8.2 in the SFRA for drainage requirements.	1 low			
VLH23	Homelands, London Road	2.1	Housing	Yes	1	None	None	Brownfield	Development is appropriate	Vulnerability to flooding from other sources as well as from river and sea flooding, and the potential to increase flood risk elsewhere through the addition of hard surfaces and the effect of the new development on surface water run-off, should be incorporated in a FRA. See Annex E of PPS25 for minimum requirements and Table 8.2 in the SFRA for drainage requirements.	1 low			
VLH24	The Old Hall, Vicarage Lane	2 dwellings	Housing	?						The site polygon could not be found				
VLH25	Cassia Grange, Cassia Green, Marton	1 dwelling	Housing	?						The site polygon could not be found				
VLH26	118 Chester Rd	1 dwelling	Housing	?						The site polygon could not be found				
VLH27	Sandy Lane Equestrian Centre	1 dwelling	Housing	?						The site polygon could not be found				
VLH28	52 High Street	5 dwellings	Housing	?						The site polygon could not be found				
VLH29	Castle Hill Farm	6 dwellings	Housing	?						The site polygon could not be found				
VLH30	24 John Street	6 dwellings	Housing	?						The site polygon could not be found				
VLH31	Land off Pullman Drive	7 dwellings	Housing	?						The site polygon could not be found				
VLH32	the Council House, Church Rd	9 dwellings	Housing	?						The site polygon could not be found				
VLH33	Northwich United Reform Church, Castle Street	0.1	Housing	No	1	None	None	Brownfield	Development is appropriate	This is not a major development and the site is not within Flood Zone 2 or 3 or at risk from any other sources of flood risk. All types of development are acceptable and a FRA is not required. Refer to the standard Environment Agency comments on managing surface water drainage (www.pipernetworking.com/floodrisk/operational.html).	1 low			
VLH34	land at Chapelfields and north of Main St	66 dwellings	Housing	?						The site polygon could not be found				
VLR1	24-26 High Street, Northwich	0.1	Retail	No	F3a	D80	Extreme	Historic flood events for Northwich & Winnington recorded between 1919 & 2001. Near to River Weaver Brownfield	Unknown		3a ext			

ID	Allocation name and reference	Allocation size ha	Proposed type	Major? (>1ha)	Flood Zone	Defended and SoP	Risk Profile	Other Influences - brownfield, watercourses, frpl, defences, canals, res,	Current allocation (as per Table D3, PPS25)	Recommendations				
VLR2	Proposed Development at Winnington Lane and Winnington Avenue, Northwich, Cheshire	1200 residential units	Retail	Yes	All	D50	Low to Extreme	Within historic flood events for Northwich & Winnington recorded between 1919 & 2001. Brownfield Adjacent to a Main River and a number of drains and the River Weaver pass through the site. Close to and below the Trent and Mersey Canal	Development should not be permitted	All development proposals in this zone should be accompanied by a FRA, See Annex E of PPS25 for minimum requirements. Flood return period and risk profile varies. Split the allocation according to flood zones and flood hazard. Flood risk from the Trent and Mersey Canal should be further investigated. The Environment Agency must be consulted as the development is within 20m of a main river.	low	low	ext	ext

Appendix D

Data register

Job: West Cheshire SFRA				Chester SFRA All data		53726 IBKR				
Title: Data Register										
Description/Title	Area	Date requested	From who	Date received	Format	Type	Date / Revision	Data extent	Owner organisation	Quality
					digital or hardcopy					(high, medium, low)
Plan (1/25,000 or larger) showing all main rivers for the catchment.	Base data	02/05/2007	Chris Waring	12/06/2007	Digital	ArcView shp	unknown		Environment Agency	High
Details of all COW's in District, inc. details of culverted sections.	Base data	02/05/2007	Chris Waring	not available					Environment Agency	
List of watercourses in the Weaver Gowy catchment put forward to be made COWs but rejected	Flood risk	05/10/2005	Alan Prentice	14/10/2005	hardcopy		unknown		EA	medium
NFCDD output	Flood Defence	02/05/2007	Chris Waring	01/06/2007	digital	MapInfo	unknown	all	Environment Agency	High
NFCDD structures and defences (and a statement) sent in MapInfo awaiting: all assets, flood storage areas and flood events in data to be sent.	Flood Defence	05/10/2005	Jane Hamilton	03/10/05 and 24/10/05	digital	ArcView	unknown		EA	medium
NFCDD data (flood storage areas, defended areas, modelled flood outlines and groups, node points, flood event outlines and extract from information database-Lists survey drawings	Flood Defence	For WGowy CFMP	Jane Hamilton	09/11/2005	digital	MapInfo	unknown	all	EA	medium
NFCDD layer of flood storage areas.	Flood Defence	For WGowy CFMP	Jane Hamilton	11/11/2005	digital	MapInfo	20-Oct-05	all	EA	medium
Flooding records & maps - all available data for the whole district, including minor events. Including GIS info on existing flood risk zones.	See below									
Chester	Flood risk	16/05/2007	Adrian Tofts	arrived	notes		unknown			high
Ellesmere Port - report by Phil N also included are notes from SW's meeting with Phil N.	Flood risk	15/05/2006	Catherine Morgetroyd	arrived	report		unknown		Ellesmere Port	high
Vale Royal	Flood risk	15/05/2007	Charlotte Aspinall	arrived	excel		unknown		Vale Royal	high
Flooding records & maps - all available data for the catchment. ASM flood risk locations needed.	Flood risk	02/05/2007	Chris Waring	not needed					Environment Agency	
Groundwater flooding information. Awaiting groundwater contours from regional EA hydrogeology team.	Flood risk	16/05/2007 and 26/06/07	Antony Poole	11/06/2007	digital	ArcView	unknown	all	EA	High
Highway drainage	Flood Risk	17/05/2007	Chris Garner	N/A	N/A	N/A	N/A	Chester	Cheshire CC	N/A
Database of properties flooded and return period used by Assets Systems Management to assess area polygons and catchment flood risk. MapInfo polygons with flooding information. The old data (with more info) as well.	Flood Risk	05/10/2005	Ian Hale	08/11/2005	digital	MapInfo and Access	unknown	all	EA	
Flooded properties and communities database.	Flood Risk	05/10/2005	Pippa Hodgekins	24/10/2005	digital		unknown		EA	
New Flood Zone maps (quarterly).	Flood Risk	05/10/2005	D Johnson, EA	07/08/2006	digital	ArcView	unknown		EA	high
Flooding records - all available info for surface water and combined sewers in urban areas. Plan showing principal surface water sewers (i.e. diameters > 500mm) in the built-up areas of the District and records of SW flooding or tidal flooding via sewers.	Flood risk				not needed					
Welsh Water	Flood risk		James Dyke		not available					
United Utilities	Flood risk	15/05/2007	Brian Morrow	15/05/2007	digital	MapInfo	18/08/2006	all	United Utilities	medium
Reports & plans for any significant flood alleviation schemes (river & coastal) in the district, inc. details of design flows, flood levels & defence levels.	Flood Defence	02/05/2007	Chris Waring	arrived			unknown	all	Environment Agency	high
Gowy scheme: All available drawings relating to Folly gates FAS. River Gowy and Thornton Brook improvements. Also included is the Gowy FAS ISIS model.	Flood Defence		Anthony Poole	01/06/2007	digital	CAD DWG and ISIS	01/07/2001 ISIS from 2003	gowy	Environment Agency	High
Description of hydrological/hydraulic model of the catchment (main rivers and tributaries), specifying exact lengths of channels modelled.	Modelling			not needed						
GIS theme of modelled reaches	Modelling	02/05/2007	Chris Waring	01/06/2007	digital	ArcView	unknown	all	Environment Agency	High
Any existing catchment hydraulic model outputs and reports. If available. E.g. Pre-Feasibility modelling.	Modelling	Sept 05	Jane Hamilton	not received	digital		unknown		EA	high
Cheshire and Wirral S105 HYDRAULIC MODEL. SEE REF46	Modelling	For WGowy CFMP	Jane Hamilton	11/11/2005	digital	isis	Mar-03	all	EA	high
Data for Weaver model: flow, stage levels and ISIS models	Modelling	For WGowy CFMP	D Johnson, EA	23/08/2006	digital	zip	unknown	weaver	EA	high
Location of modelled river reaches in the catchment in GIS format	Modelling	03/10/2005	Liam Gaffney	09/11/2005	Digital	ArcView	unknown	all	ea	medium
Additional modelling data for Valley Brook: cross sections with OS map.	Modelling	25/07/2006	D Johnson, EA	06/09/2006	digital	pdf	unknown	Valley brook	EA	high
Additional modelling data for Weaver: cross sections, soffit, bed and water levels, and location OS map	Modelling	25/07/2006	D Johnson, EA	14/08/2006	digital	pdf	unknown	upper weaver	EA	high
Selected hydraulic model results (i.e. flood level profiles along channels modelled . Models received: Northwick detailed, Dibbinsdale Brook and Cheshire and Wirral SFRM (Wheelock, Northwick Middlewich, Nantwich, Gowy, Congleton). Supplementary Northwick Modelling Study included as a report.	Modelling	16/05/2007	Antony Poole	01/06/2007	digital	isis	unknown	all apart from Dee	EA	High
Summary of all stream flow gauging stations in the catchment (i.e. OS grid ref, gauge type, period of record etc).	Modelling	02/05/2007	Chris Waring	01/06/2007	digital	ArcView	unknown	all	Environment Agency	High
GIS point data of all river gauging sites and rainfall gauges.	Modelling	05/10/2005	Anne Walton	24/10/2005	digital	ArcView	unknown	all	EA	high
Gauging station classification. The gauging sites in the Weaver Gowy catchment to be classified in terms of quality.	Modelling	05/10/2005	Andy Melliush	24/10/2005	digital		unknown	Chester	EA	high
Details of Flood Warning Schemes (including emergency response) in operation.	Flood Warning	02/05/2007	Chris Waring				unknown	all	Environment Agency	high
Notes on Flood Incident Management from Mike Fraser including flood history and new flood warning areas.	Flood Warning	For WGowy CFMP	Mike Fraser	05/10/2005	hardcopy	notes	05/10/2005	all	EA	high

Job: West Cheshire SFRA		Chester SFRA All data			53726 IBKR					
Title: Data Register										
Flood warning procedures including gauging station levels. River Weaver at Northwick	Flood Warning	05/10/2005	Mike Fraser	24/10/2005	hardcopy	doc	17/05/2005	Lower Weaver	EA	high
Weaver Flood Warning Management Plan by Black and Veatch	Flood Warning	05/10/2005	Mike Fraser	24/10/2005		doc	24/06/2005	Upper Weaver and Lower Weaver	EA	high
Flood warning areas and address point data.	flood warning	For WGowry CFMP	Mike Fraser	24/10/2005	Digital	gis	unknown	all	ea	high
Details of existing flood storage lagoons, runoff retention ponds etc on non-Main Rivers in the Borough.	Flood Defence									
Chester	Flood Defence	16/05/2007	Adrian Tofts	none available						
Ellesmere Port	Flood Defence	15/05/2007	Catherine Morgetroyd	none available					Ellesmere Port	
Vale Royal	Flood Defence	15/05/2007	Charlotte Aspinall	22/05/2007	digital	ArcView	unknown	all	Vale Royal	High
NFCDD layer of flood storage areas.	Flood Defence	For WGowry CFMP	Jane Hamilton	11/11/2005	digital	MapInfo	20-Oct-05	all	EA	medium
Tidal and Surge Levels (Estuary and Sea) for 200yr return period storm. Expected Water Levels at Summers Jetty, Connah's Quay provided	Modelling	02/05/2007	Chris Waring	01/06/2007	digital	excel	update due 28 May 2007	coastal	Environment Agency	medium
Catchment Flood Management Plan. Mersey Estuary - Scoping and Main report (CFMP)	Policy	02/05/2007	EA website	15/05/2007	digital	PDF	03/07 - Main, 11/05 Scoping	Mersey estuary area	Environment Agency	medium
Shoreline Management Plan	Policy	02/05/2007	Shoreline management partnership	15/05/2007	digital	PDF	01-Dec-99	Mersey estuary area	Liverpool Bay Coastal Group	medium
OS Base Maps in electronic format on CD (coverage of the whole District) at 1/50,000 scale] 1/10,000 scale 1/2,500 scale	Base data	20/05/2007	Charlotte Aspinall	22/05/2007	digital	ArcView	unknown	all	Vale Royal	High
Plan showing availability of LIDAR data	Base data	02/05/2007	EA Website	15/01/2007	digital	shapefile	20/04/2007	all	Environment Agency	medium
Selected LIDAR data on CD from summary	Base data	02/05/2007	Chris Waring	29/05/2007	digital	ASCII Grid	2007	all	EA	High
SAR DTM/DEM in 5m grids for the whole of the Weaver Gowry catchment	Base data	Sept 05	Neil Webster	24/10/2005	digital	ArcView	unknown	all	EA	low
LIDAR coverage Gowry	Base data	22/12/2005	Jane Hamilton	available via SFRA	Digital	LiDAR				medium
recently flown LiDAR coverage, Upper Weaver	Base data	18/10/2006	Liam Gaffney	27/10/2006	digital	CD, Grid	2006	Upper Weaver	EA	medium
Development Planning Documents and/or Local Dev't F'work documents. CC										
Chester	planning	16/05/2007	Adrian Tofts and Lyndsay Jennings	30.05.07	digital	web based and Word	Jun-07	Chester	Chester	High
Ellesmere Port	planning	15/05/2007	Catherine Morgetroyd	23/05/2007	hardcopy	report	Jan-02	Ellesmere Port	Ellesmere Port	High
Vale Royal - includes 1st review alteration and additional omissions site documents.	planning	15/05/2007	Charlotte Aspinall	22/05/2007	digital	ArcView	unknown	all	Vale Royal	High
Housing Rates. Spreadsheet of projected housing allocations in the north west and the interim draft revision of the Regional Spatial Strategy.	planning	For WGowry CFMP	Jane Hamilton	07/11/2005	digital	excel and pdf	Oct-05	all	EA	medium
Census 2001 Population figures, for urban areas in catchment	planning	For WGowry CFMP	Website	09/02/2006	digital	excel	unknown	all	Government	medium
Regional FRA figures, housing allocation and map	planning	For WGowry CFMP	Jane H	23/02/2006	digital	excel, word	Feb-06	all	EA, RSS	medium
Urban housing capacity assessment	planning									
Chester	planning	16/05/2007	Adrian Tofts	arrived			unknown			medium
Ellesmere Port - Urban Potential Study Report	planning	15/05/2007	Catherine Morgetroyd	23/05/2007	digital	pdf	May-06	Ellesmere Port	Ellesmere Port	High
Vale Royal. Urban housing capacity assessment. GIS named HLAA by White Young Green. Hardcopy also included - scoping report. Use Hlaa for future housing allocations in SFRA.	planning	15/05/2007	Charlotte Aspinall	22/05/2007 not available	digital and hardcopy	ArcView and report	Jan-07	vale royal	White Young Green	High
County Structure Plan (current version) Cheshire	planning		Cheshire website	not available						
Details of Major Development Areas (Existing & Proposed) CC	planning						unknown			
Chester	planning	16/05/2007	Adrian Tofts	21/06/2007	digital	excel	Jun-07	Chester	Chester	High
Ellesmere Port - list of major development sites and plans.	planning	15/05/2007	Catherine Morgetroyd	26/06/2007	hardcopy	notes and plans	Jun-07	Ellesmere Port	Ellesmere Port	High
Vale Royal	planning	15/05/2007	Charlotte Aspinall	arrived			unknown	vale royal	Vale Royal	medium
GIS theme of ancient woodland	Environment	For WGowry CFMP	magic	08/09/05	digital	ArcView	07/09/2004	all	English Nature	high
GIS theme of AONB	Environment	For WGowry CFMP	magic	08/09/05	digital	ArcView	05/05/2005	all	Countryside Agency	high
GIS theme of countryside character areas and citations for the relevant areas	Environment	For WGowry CFMP	magic and CA website	08/09/05	digital	ArcView and pdf	05/05/2005	all	Countryside Agency	high
GIS theme of countryside stewardship scheme target areas. i.e. priorities for the area.	Environment	For WGowry CFMP	magic	08/09/05	digital	ArcView	20/10/2003	all	Defra	high
GIS theme of Forestry Commission Conservancy Boundaries.	Environment	For WGowry CFMP	magic	08/09/05	digital	ArcView	22/05/2002	all	Forestry Commission	high
GIS theme of heritage coasts	Environment	For WGowry CFMP	magic	08/09/05	digital	ArcView	11/04/2003	all	Countryside Agency	high
GIS theme of land management initiatives i.e. changing land management to maintain attractive environment	Environment	For WGowry CFMP	magic	08/09/05	digital	ArcView	31/01/2003	all	Countryside Agency	high
GIS theme of national nature reserves	Environment	For WGowry CFMP	magic	08/09/05	digital	ArcView	15/08/2005	all	English Nature	high
GIS theme of proposed national parks	Environment	For WGowry CFMP	magic	08/09/05	digital	ArcView	06/04/2005	all	Countryside Agency	high
GIS theme of Ramsar sites	Environment	For WGowry CFMP	magic	08/09/05	digital	ArcView	15/08/2005	all	English Nature	high
GIS theme of sac sites	Environment	For WGowry CFMP	magic	08/09/05	digital	ArcView	15/08/2005	all	English Nature	high
GIS theme of spa sites	Environment	For WGowry CFMP	magic	08/09/05	digital	ArcView	15/08/2005	all	English Nature	high
GIS theme of sassy sites	Environment	For WGowry CFMP	magic	08/09/05	digital	ArcView	15/08/2005	all	English Nature	high

Job: West Cheshire SFRA		Chester SFRA								
Title: Data Register		53726 IBKR								
		All data								
GIS theme of sissy unit sites	Environment	For WGow y CFMP	magic	08/09/05	digital	ArcView	15/08/2005	all	English Nature	high
GIS themes of SAM's, world heritage sites, parks and gardens, battlefields and protected wrecks.	Environment	For WGow y CFMP	Graham Deacon, NMR Enquiry and Research Services- Archaeology	12/09/2005	digital	ArcView	Not stated	all	English Heritage	high
GIS theme of land cover data. Shows the distribution of habitat classes throughout the catchment.	Environment	For WGow y CFMP	Michael Shankster	19/09/2005	digital	ArcView	2001	all	CEH	high
Local Environmental Action Plans ("LEAPs") EA										
LEAPs (predecessor to Catchment Management Plans)	Environment	Sept 05	Jane Hamilton	07/11/2005	hardcopy	report	1997 and 2001 review	all	EA	medium
GIS theme of lakes and reservoirs - EA not able to provide, need separate licence from CEH	Base data	16/05/2007	Antony Poole	not needed					EA	
GIS theme of lakes and reservoirs	Base data	01/11/2005	Jane Hamilton	09/11/2005	digital	ArcView	unknown	all	EA	medium
Details of Emergency Response Procedures for flood events. EA/BC		02/05/2007	Chris Waring	all received					Environment Agency	
Flood Incident Response Plan for Northwich	Flood Warning	05/10/2005	Mike Fraser	24/10/2005	hardcopy	doc	Mar-05	Lower Weaver	Vale Royal	high
Flood Risk Assessments										
Chester	Flood risk	01/05/2007	Liz Stone	01.05.07			unknown	Chester	Chester CC	medium
Ellesmerport	Flood risk			not required						
Vale Royal - List of proposals 'considerations at committee'. Still awaiting FRA data. Meeting needed.	Flood risk	15/05/2007	Charlotte Aspinall	meeting attended					Vale Royal	
List of planning application determinations contrary to EA advice. File names '25494 available data from Sherron kitchen'.	planning	16/05/2007	Antony Poole	available upon request	digital	excel	unknown	all	EA	n/a
Chester Old Port River Wall Restoration Feasibility Study.	Flood defence	16/05/2007	Adrian Tofts	18/05/2007	hardcopy	report	Sep-00	Chester	Chester CC	High
Sustainability appraisal scoping report	policy	16/05/2007	Adrian Tofts	18/05/2007	hardcopy	report	Nov-06	Chester	Chester CC	High
Representations made to site allocations for local plan and supporting FRAs (Chester, Eport and Vroyal)	Flood risk	16/05/2007	Adrian Tofts	not available				all		n/a
River Dee Northern Embankment Failure Assessment and flood routing	Modelling and flood defence	16/05/2007	Adrian Tofts	18/05/2007	hardcopy	report	Mar-00	Chester	Chester CC and Bullen	High
Inspectors report. The impacts of flood risk on proposed developments in the Sealand Basin Area.	Flood risk	16/05/2007	Adrian Tofts	18/05/2007	hardcopy	report	Jul-02	Chester sealand basin	Chester CC	High
Position statement on flood risk issues	Policy	16/05/2007	Adrian Tofts	not available		Apr-01			Chester CC	
Northwich Visions studies done in conjunction with the EA in respect of flood risk in Northwick town centre.	Policy	16/05/2007		Not available, see Area FRA				vale royal	Vale Royal and EA	medium
British Waterways 3 breach locations identified.	flood risk	18/05/2007	John Spottiswood (Phil Whelan national hydrologist)	30.07.07	digital	email	Jul-07	west cheshire	British Waterways	High
Manchester Ship Canal information - information not available	flood risk	18/05/2007	David Stork	not available					MSC	
Old Port Development Flood Risk Assessment	Flood risk	22/05/2007	Adrian Tofts	22/05/2007	hardcopy	report	Aug-04	Chester	Chester	High
Interim report (FCA) for Waters Meet, Deeside Chester and Eas pre feasibility work on Dee northern Embankment	Flood risk	22/05/2007	Adrian Tofts	22/05/2007	hardcopy	report	Feb-07	Chester	Chester	High
Bank top GIS theme	Base data	20/05/2007	Charlotte Aspinall	22/05/2007	digital	ArcView	unknown	all	Vale Royal	High
Contour data of Vale Royal area	Base data	20/05/2007	Charlotte Aspinall	22/05/2007	digital	ArcView	unknown	all	Vale Royal	High
Flood data - NFCDD output and flood zones for Vale Royal	Base data	20/05/2007	Charlotte Aspinall	22/05/2007	digital	ArcView	unknown	all	Vale Royal	High
Local plan - loads: conservation, allocations, flood zones	Base data	20/05/2007	Charlotte Aspinall	22/05/2007	digital	ArcView	unknown	all	Vale Royal	High
OS GIS theme	Base data	20/05/2007	Charlotte Aspinall	22/05/2007	digital	ArcView	unknown	all	Vale Royal	High
Round table session on flooding issues in Sealand Basin. Review provided by tpk consulting. Chester DC local plan public enquiry.	Flood risk	23/05/2007	Adrian Tofts	23/05/2007	hardcopy	report	20/04/2001	Chester sealand basin	TPK consulting	medium
Submission to round table session on flood risk issues within Sealand Basin by Weetwood Services	Flood risk	23/05/2007	Adrian Tofts	23/05/2007	hardcopy	report	15/05/2001	Chester sealand basin	Weetwood Services	medium
Chester DC local plan enquiry. Flooding round tables session. Position on behalf of castlemore securities Ltd. By JMP consultants. Sealand Basin	Flood risk	23/05/2007	Adrian Tofts	23/05/2007	hardcopy	report	01/05/2001	Chester sealand basin	JMP Consultants	medium
Paper copies of watercourse and canal data for Vale Royal. Should be available in GIS as well.	Base data	23/05/2007	Charlotte Aspinall	23/05/2007	hardcopy	Data tables	unknown	vale royal	vale royal	High
Ince Glass Container Manufacturing Filling and Distribution Company. Flood Risk Assessment.	Flood risk	15/05/2007	Catherine Morgetroyd	23/05/2007	hardcopy	report	Nov-05	Ellesmere Port Ince Marshes	Jacobs Babtie	medium
Oaklands, Hooton, Flood Risk Assessment (just N of Emere Port)	Flood risk	15/05/2007	Catherine Morgetroyd	23/05/2007	hardcopy	report	Apr-05	Ellesmere Port	Weetwood Services	medium
Winnington Urban Village, Northwick. Planning application details and objections. Outline Major EIA.	planning	15/05/2007	Charlotte Aspinall	22/05/2007	hardcopy	report	unknown	Northwick	Vale Royal	High
List of planning applications in Vale Royal	planning	15/05/2007	Charlotte Aspinall	22/05/2007	hardcopy	Data tables	unknown	vale royal	Vale Royal	High
Vale Royal BC revised local development scheme 2007. Due to be adopted May 28th 2007	planning	15/05/2007	Charlotte Aspinall	22/05/2007	hardcopy	report	2007	vale royal	Vale Royal	High
Ellesmere Port Bio-Diesel Plant Flood Risk Assessment and Strategic Drainage Review	Flood risk	24/05/2007	FM	24/05/2007	digital	pdf	Aug-06	ellesmere port	FM	High
GIS data from Chester CC. See GIS tab for details.	Base data	May 2007	GIS Team	01/06/2007	digital	ArcView	unknown	Chester	Chester	High
GIS data from Ellesmere Port and Neston. See GIS tab for details.	Base data	May 2007	Laura Mylen	01/06/2007	digital	ArcView	unknown	Ellesmere Port	Ellesmere Port	High
Coastal Flood Risk Mapping	Flood risk	May 2007	Anthony Poole	01/06/2007	digital	pdf	Jul-01	coastal	EA (with Posford Duvivier and Motts)	medium
Map showing areas protected by Knolls Bridge and Finchetts Reservoirs.	Flood Defence	May 2007	Anthony Poole	11/06/2007	hardcopy	map	23/05/2007	chester	EA	medium
Areas protected by northern embankment. SOP 1 in 200. Chester End and Deeside Industrial Estate.	Flood Defence	May 2007	Anthony Poole	11/06/2007	hardcopy	map	23/05/2007	Chester	EA	medium
1:10k OS mapping for Chester	Base data	12/06/2007	Simon Moor	14/06/2007	digital	tiff	unknown	Chester	Chester	High

Job: West Cheshire SFRA		Chester SFRA All data								
Title: Data Register		53726 IBKR								
1:10k OS mapping for Ellesmere Port. Master map and oS	Base data	12/06/2007	Simon Moor	14/06/2007	digital	mastermap	unknown	Chester	Chester	High
EA flood zones distinguishing between tidal and fluvial flood risk	flood risk	May	Anthony Poole	25/06/2007	digital	ArcView shp	unknown	all	EAW	medium
Urban Potential Study Working draft not in public domain. Confidential. The Urban Potential Study assesses existing brownfield sources of capacity for housing. This covers all settlements within the District. Using the GIS can obtain a full list of the sites, location and site area as requested. Many of the sites will need to come out due to either planning constraints or relevant planning histories. Currently going through this process as part of ongoing work for the LDF core strategy. Awaiting maps. <u>Also included in the Chester CC Local Plan GIS files.</u>	planning	May	Lyndsey Jennings	26/06/2007	digital	ArcView shp	Jun-07	Chester	Chester	High
Vale Royal draft monitors for our housing, retail and employment land. These are still working drafts and are not available to the public as yet. These list all sites with planning permission for the various uses and whether they are yet under construction.	planning	May	Charlotte Aspinall	26/06/2007	digital	excel	Mar-07	vale royal	vale royal	High
Extreme Sea Level Predictions at Summers Jetty and Chester Weir (Defended Scenario)	flood risk	May	Alison Jones-Humphreys	28/06/2007	digital	excel	unknown	Chester and ellesmereport	EAW	medium
Shpfiles of the Northern and Hawarden Embankment surveys, undertook by EA staff in Chester.	Flood defence	May	Vicky Nightingale	30.07.07	digital	ArcView shp	unknown	Chester	EAW	High
Dee Pilot CFMP			Keith Ivens	not available						
Broad scale Dee modelling from the CFMP and the update when available.			Keith Ivens	not available						
River Dee flood defence details. Height and SOP. Awaiting GIS of this though (this is now in 154 dated 30.07.07).	Flood defence	May	Keith Ivens	24.07.07	digital	email	unknown	epnbc and Chester	EAW	High
Northwich Vision document.	planning	May	Graham Knott	27.07.07	hardcopy	doc	unknown	northwich	Vale royal	High
Doncaster SFRA	planning	na	Graham Knott	27.07.07	digital	report	2004	all	Doncaster DC	medium
List of major development areas from EPNBC (should contain a map)	planning	May	Catherine Morgetroyd	26.06.07	hardcopy	letter	Jun-07	epnbc	epnbc	High
EPNBC local plan in GIS. Also included are the epnbc urban potential sites.	planning	may	Catherine Morgetroyd	26.06.07	digital	MapInfo GIS	unknown	epnbc	epnbc	High
Example SFRA's from Peterborough FM	planning	02.08.07	Barry Barton	02.08.07	digital	pdf	various	na	various Las	medium
Curzon Park, Chester, Embankment Pre-Feasibility Study	Flood defence	May	Keith Ivens	03.08.07	hardcopy	report	Jan-07	chester	Chester	High
River Dee Embankments Breach Modelling Report Curzon Park, Chester	Flood defence	May	Keith Ivens	03.08.07	hardcopy	report	Sep-05	Chester	Chester	high
Northern and Hawarden Embankments Pre-Feasibility Study	Flood defence	May	Keith Ivens	03.08.07	hardcopy	report	Jan-07	Chester	Chester	High
Deeside Flood Embankment Assessment Geotechnical Report	Flood defence	May	Keith Ivens	03.08.07	hardcopy	report	Oct-06	Chester	Chester	High
Sealand development allocations, GIS layer	planning	03/08/2007	Lyndsey Jennings	06/08/2007	digital	ArcView	Aug-07	Chester	Chester	High
Remaining allocations from Vale Royal. List was sent VR sent the missing allocations in GIS.	planning	03/08/2007	Charlotte Aspinall	07.08.07	digital	ArcView	unknown	vale royal	vale royal	medium
GIS polygons of flood risk locations, derived from P Nightingale's report produced for the SFRA.	Flood risk	na	Phil Nightingale and created by Suzie Piper	09/08/2007	digital	ArcView	June 2007 (original data)	epnbc	Faber Maunsell	medium
Dee River Basin summary of water management issues.	Base data	01/08/2007	Lyndsey Jennings	16/08/2007	digital	pdf	Not stated	Chester	EAW	medium
ISIS model from the Dee CFMP. 1 in 100 and 1 in 200 year runs only. Includes a modelling report. The 4% and 1% tidal and fluvial events have also been sent.	modelling	July	Vicky Nightingale	20/08/2007 and 04/09/07	digital	isis	Jul-04	Chester	EAW	medium
Sealand basin analysis. ISIS and TuFlow models	modelling	-	Neil Taunt.	Aug 07	digital	isis and tufLOW	Aug 07	Chester	EAW	High
TufLOW tidal extents for Chester. Undefended and defended scenarios.	modelling	-	Keith Ivens	01/11/2007	digital	ArcView shp	Oct-07	Chester	EAW	High
Sealand Basin breach report and depth grids.	modelling	-	Neil Taunt.	02/11/2007	digital	jpeg and psf	Oct-07	Chester	EAW	High
River Dee Draft CFMP Scoping Report.	flood risk	May	Lyndsey Jennings	07/11/2007	digital	pdf and word	Sep-07	Chester and Ellesmere Port	EAW	Medium

Appendix E

Figures