

# MORAY WEST

## OFFSHORE WINDFARM

### Onshore Transmission Infrastructure Environmental Impact Assessment (EIA)

Moray Offshore Windfarm (West) Limited

#### Technical Appendix 5.3: Detailed Hydrological and Hydrogeological Information





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Acronyms	
Acronym	Expanded Term
AC	Aberdeenshire Council
EIA	Environmental Impact Assessment
MC	Moray Council
OnTI	Moray West Onshore Transmission Works
PAB	Planning Application Boundary
PWS	Private Water Supply
SEPA	Scottish Environment Protection Agency
WFD	Water Framework Directive



## 1 Introduction

### 1.1 Purpose of this Report

As part of the works undertaken in support of the Moray West Onshore Transmission Infrastructure (OnTI) Environmental Impact Assessment (EIA), this technical appendix presents detailed results of the desktop studies to establish the existing baseline hydrological and hydrogeological conditions within the study area. The detailed information presented on Water Framework Directive (WFD) Classifications and Water Resources within this report informs the summary baseline information and the assessment of potential and residual effects in Chapter 5: Hydrology, Hydrogeology and Geology of the EIA Report. Background information on the approach to the assessment, including study area and data gathering methodologies, are also presented in Chapter 5 of the EIA Report for reference.

## 2 Detailed Baseline Results

### 2.1 Water Framework Directive Classifications

Across the study area there are 10 WFD waterbodies, comprising seven rivers and three groundwater waterbodies. Six waterbodies are assessed as being of Moderate or worse status overall, while four are assessed as being of Good overall status (Scottish Environment Protection Agency [SEPA], 2017). Table 2.1 below presents detailed information on the WFD condition, the future objectives and associated mitigation measures for each of these 10 waterbodies.

Waterbody (WFD ID)	Waterbody Type	2015 Condition	Reasons for Failure to Meet Good Status	Overall Objective	Type of Mitigation Measures Anticipated
Deskford Burn (23050)	River	Overall – Moderate (physical condition – Good; water quality – High; water flows and levels – High; and ecological condition – Moderate).	Fish populations in the waterbody may not be in a Good condition. SEPA has not been able to identify the contributing cause.	Good status by 2027.	To be determined.
Fordyce Burn (23052)	River	Overall – Moderate (physical condition – Good; water flows and levels – Moderate; and water quality – Moderate).	Water flows and levels – Water abstraction from agricultural irrigation. Water quality – Nutrient pollution. Diffuse sources of pollution from rural sources and point source discharges from waste water (sewage) disposal.	Good status after 2027 (long term recovery of the waterbody from the impact of nutrient pollution is not expected until after 2027).	Water flows and levels – Agricultural irrigation regulation enforced by SEPA. Water quality – Diffuse sources. Catchment action programme is being undertaken by SEPA and land managers. Water quality – Point source discharges. Waste water sewage regulation is being enforced by SEPA / Scottish Water.
Burn of Paithnick (23175)	River	Overall – Bad (physical condition – Bad; water flows and levels – High; and water quality – Good).	Physical condition – Modifications to bed, banks and shores due to urban and rural land uses.	Good status by 2027.	Partnership between land managers, local communities and SEPA is working to re-design and improve the physical condition of this waterbody.
River Isla – Keith to Shiel Burn (23179)	River	Overall – Bad (physical condition – Bad; water flows and levels – High; and	Physical condition – Modifications to bed, banks and shores due to urban and rural land uses.	Good status after 2027 (disproportionately expensive to address water quality	Partnership between land managers, local communities and SEPA is working to re-design and improve the physical

Table 2.1: Detailed WFD Baseline Information					
Waterbody (WFD ID)	Waterbody Type	2015 Condition	Reasons for Failure to Meet Good Status	Overall Objective	Type of Mitigation Measures Anticipated
		water quality – Moderate).	Water quality – No pressures identified. Nutrient levels are not affecting ecology and action is not required.	objective until after 2027).	condition of this waterbody.
River Isla – Source to Keith (23181)	River	Overall – Poor (physical condition – Poor; water flows and levels – Good; and water quality – Good).	Physical condition – Modifications to bed, banks and shores due to urban and rural land uses.	Good status by 2027.	Partnership between land managers, local communities and SEPA is working to re-design and improve the physical condition of this waterbody.
Burn of Drum (23177)	River	Overall – Good (physical condition – Good; water flows and levels – Good; and water quality – Good).	N/A already at Good status or above.	N/A already at Good status or above.	N/A
Cairnie Burn (23172)	River	Overall – Good (physical condition – Good; water flows and levels – High; and water quality – Good).	N/A already at Good status or above.	N/A already at Good status or above.	N/A
Cullen (150501)	Groundwater	Overall – Poor (water flows and levels – Good; and water quality – Poor).	Water quality – Diffuse sources of pollution from rural sources.	Good status after 2027 (rate limiting natural conditions mean that it will take longer for quantities of nitrates already in soil, subsoil and groundwater to reduce to the extent required to achieve good status).	Nitrate vulnerable zone action with land managers and public bodies working together.
Banff (150632)	Groundwater	Overall – Good (water flows and levels – Good; and water quality – Good).	N/A already at Good status or above.	N/A already at Good status or above.	N/A
Keith (150656)	Groundwater	Overall – Good (water flows and levels – Good; and	N/A already at Good status or above.	N/A already at Good status or above.	N/A

Table 2.1: Detailed WFD Baseline Information					
Waterbody (WFD ID)	Waterbody Type	2015 Condition	Reasons for Failure to Meet Good Status	Overall Objective	Type of Mitigation Measures Anticipated
		water quality – Good).			

2.2 Water Resources

2.2.1 Private Water Supplies

A total of 53 PWSs were identified within the study area, comprising 37 within the Moray Council (MC) area and 16 within the Aberdeenshire Council (AC) area, as shown in Figure 5.3.2 of the EIA Report. Each of these PWS are registered as being type B, which are defined as being supplies only serving domestic premises with less than 50 persons supplied. AC provided a list of registered users though were not able to confirm the type or exact location of source supply. From the 53 PWSs identified in Table 2.2 below, 39 are assessed as having a potential hydrological or hydrogeological connection to the PAB. The other 14 are assessed as not being connected and therefore have been scoped out of the assessment in Chapter 5: Hydrology, Hydrogeology and Geology of the EIA Report.

Figure PWS Ref	Supply Reference (Council)	Discharge Operator and Location	Type of PWS	PWS Purpose	Sub Catchment	Distance Between Source and PAB	Potential Connection to PAB?
PWS1	PWS/N/0052 (Aberdeenshire)	1 / 2 / 3 / 4 / 5 / 7 / 10 Glenglassaugh Distillery Cottage, Aberdeenshire, AB45 2SQ.	Unknown	Type B	Burn of Fordyce	Situated downstream and adjacent to the PAB	Yes
PWS2	PWS/N/1175 (Aberdeenshire)	8 Glenglassaugh Distillery Cottage, Aberdeenshire, AB45 2SQ.	Unknown	Type B	Burn of Fordyce	Situated downstream and adjacent to the PAB	Yes
PWS3	PWS/N/2394 (Aberdeenshire)	The Brae, Fordyce, Aberdeenshire, AB25 2SJ.	Borehole	Type B	Burn of Fordyce	180 m and upgradient to the east of PAB.	No
PWS4	PWS/N/2859 (Aberdeenshire)	The Brae Steading, Fordyce, Aberdeenshire, AB45 2SJ.	Borehole	Type B	Burn of Fordyce	185 m and upgradient to the east of PAB.	No
PWS5	PWS/N/1183 (Aberdeenshire)	Hallyards, Fordyce, Aberdeenshire, AB25 2UR.	Unknown	Type B	Burn of Fordyce	Situated within PAB.	Yes
PWS6	PWS/N/1147 (Aberdeenshire)	Newpark, Fordyce, Aberdeenshire, AB25 2UR.	Unknown	Type B	Burn of Fordyce	Situated within PAB.	Yes
PWS7	PWS/N/0913 (Aberdeenshire)	Breach, Fordyce, Aberdeenshire, AB45 2UR.	Unknown	Type B	Burn of Fordyce	Situated within PAB.	Yes
PWS8	PWS/N/1150 (Aberdeenshire)	Parklea Newton, Fordyce, Aberdeenshire, AB45 2UT.	Unknown	Type B	Burn of Fordyce	Situated within PAB.	Yes
PWS9	PWS – 6231 (Aberdeenshire)	Newton Cottage, Fordyce, Aberdeenshire, AB45 2UT.	Unknown	Type B	Burn of Fordyce	Situated within PAB.	Yes
PWS10	PWS/N/2242 (Aberdeenshire)	Newton, Fordyce, Aberdeenshire, AB45 2UT.	Unknown	Type B	Burn of Fordyce	Situated within PAB.	Yes
PWS11	PWS/N/1190 (Aberdeenshire)	Mains of Birkenbog, Fordyce, Aberdeenshire, AB56 4TN.	Unknown	Type B	Scattery Burn	450 m to the west of the PAB on the opposite side of a ridge which forms a topographic divide.	No
PWS12	PWS/N/0910 (Aberdeenshire)	Cotton Croft, Fordyce, Aberdeenshire, AB45 2XR.	Unknown	Type B	Burn of Fordyce	550 m to the east on the other side of the catchment divide.	No
PWS13	Null (Aberdeenshire)	Cairnton, Fordyce, Aberdeenshire, AB45 2XS.	Unknown	Type B	Burn of Fordyce	Situated adjacent to the PAB.	Yes
PWS14	PWS/N/0908 (Aberdeenshire)	Clashdamer, Fordyce, Aberdeenshire, AB45 2US.	Unknown	Type B	Burn of Fordyce	Situated within PAB.	Yes
PWS15	PWS/N/0430 (Aberdeenshire)	Viewfield, Fordyce, Aberdeenshire, AB45 2US.	Spring	Type B	Burn of Fordyce	Situated within PAB.	Yes
PWS16	PWS/N/0938 (Aberdeenshire)	Berryleys, Fordyce, Aberdeenshire, AB45 2US.	Unknown	Type B	Burn of Fordyce	Situated 150 m upgradient from the PAB.	No
PWS17	07/00290/SPRING (Moray)	Meikle Knowes, Deskford, Buckie, Moray, AB56 5TX.	Spring	Type B Domestic	Burn of Deskford	Situated within PAB.	Yes

**Table 2.2: Private Water Supply Abstractions Within Hydrological and Hydrogeological Study Area**

Figure PWS Ref	Supply Reference (Council)	Discharge Operator and Location	Type of PWS	PWS Purpose	Sub Catchment	Distance Between Source and PAB	Potential Connection to PAB?
PWS18	07/00121/SPRING (Moray)	Kirkton Farm, Kirkton, Deskford, Buckie, Moray, AB56 5UA.	Spring	Type B Domestic	Burn of Deskford	750 m and downgradient to the west of PAB crossing of the Alton Burn.	Yes
PWS19	07/00286/SPRING (Moray)	Moss-side, Deskford, Buckie, Moray, AB56 5XX.	Spring	Type B Domestic	Burn of Deskford	1.8 km to the west and on the other side of Burn of Deskford and Moss-side Burn from PAB.	No
PWS20	07/00119/RUNOFF (Moray)	Lower Craibstone Cottage, Deskford, Buckie, Moray, AB56 5UP.	Surface Water	Type B Domestic	Burn of Deskford	Situated within PAB.	Yes
PWS21	07/00288/SPRING (Moray)	Craibstone Farm, Deskford, Buckie, Moray, AB56 5UP.	Spring	Type B Domestic	Burn of Deskford	Situated within PAB.	Yes
PWS22	07/00201/RUNOFF (Moray)	Netherton of Overwindyhills / Easter Windyhills, Crossroads, Keith, Moray, AB55 6NL.	Surface Water	Domestic Type B	Burn of Paithnick	Situated within PAB.	Yes
PWS23	07/00203/BOREHO (Moray)	Wester Windyhills, Crossroads, Keith, Moray, AB55 6NL.	Borehole	Domestic Type B	Burn of Paithnick	200 m to the west and upgradient of the PAB.	No
PWS24	06/00109/SPRING (Moray)	Myreton Crossroads, Keith, Moray, AB55 6NJ.	Spring	Domestic Type B	Burn of Paithnick	40 m to the east and upgradient of PAB.	Yes
PWS25	16/00001/WELL (Moray)	Goukstone Croft, Grange, Crossroads, Keith, Moray, AB55 6NJ.	Well	Domestic Type B	Burn of Paithnick	830m to the west and on the opposite side of Burn of Paithnick valley.	No
PWS26	06/00077/WELL (Moray)	Burnside Mill, Grange, Keith, Moray, AB55 6ND.	Well	Domestic Type B	Burn of Paithnick	Situated 60 m to the west and downgradient of PAB.	Yes
PWS27	06/00091/BOREHO (Moray)	Balnamoon, Crossroads, Keith, Moray.	Borehole	Domestic Type B	Burn of Paithnick	140 m to the west and upgradient of Bowie Burn tributary crossing of the PAB.	No
PWS28	07/00070/SPRING (Moray)	Croftgibb / Craeburn / Greenbog, Old Post Office, Grange Crossroads, Keith, Moray, AB55 6LX.	Spring	Domestic Type B	Burn of Paithnick	95 m to the west and downgradient of the PAB.	Yes
PWS29	07/00234/WELL (Moray)	Hillside, Crossroads, Keith, Moray, AB55 6LU.	Spring	Domestic Type B	Burn of Paithnick	760 m to the west and upgradient of PAB.	No
PWS30	07/00209/SPRING (Moray)	Silverhillock / Sunnyside, Grange Crossroads, Keith, Moray, AB55 6LR.	Spring	Domestic Type B	Burn of Paithnick	600 m to the west and upgradient of PAB.	No
PWS31	09/00014/SPRING (Moray)	Little Cantly, Grange, Keith, Moray.	Spring	Domestic Type B	Burn of Ardrone	Situated within PAB.	Yes
PWS32	07/00200/WELL (Moray)	Cantly Croft, Grange, Keith, Moray, AB55 6LJ.	Well	Domestic Type B	Burn of Ardrone	Situated south east and 110 m upgradient of PAB.	No



Figure PWS Ref	Supply Reference (Council)	Discharge Operator and Location	Type of PWS	PWS Purpose	Sub Catchment	Distance Between Source and PAB	Potential Connection to PAB?
PWS33	06/00057/RUNOFF (Moray)	Ardroyne Croft, Keith, Moray, AB55 5NQ.	Surface Water	Domestic Type B	Burn of Drum	150 m to the west and upstream of PAB, but infrastructure may cross it.	Yes
PWS34	06/00055/SPRING (Moray)	Little Ardrone / 5 Drum Cottages /3 Drum Cottages, Keith, Moray, AB55 5NP.	Spring	Domestic Type B	Burn of Drum	260 m to the east and upgradient of PAB but infrastructure may cross it.	Yes
PWS35	07/00017/SPRING (Moray)	Auchoynanie, Keith, Moray, AB55 5NT.	Spring	Domestic Type B	Burn of Drum	420 m to the east and upgradient of PAB but infrastructure may cross it.	Yes
PWS36	07/00115/SPRING (Moray)	Greenwood House, Keith, Moray.	Spring	Domestic Type B	Burn of Drum	Situated within PAB.	Yes
PWS37	07/00034/SPRING (Moray)	Birkenburn Farm House / East View / Woodland Cottage / Birkenburn Cottage, Keith, Moray, AB55 3PD.	Spring	Domestic Type B	Burn of Drum	80 m to the west and upstream of PAB, but infrastructure may cross it.	Yes
PWS38	07/00032/SPRING (Moray)	Newtack, Keith, Moray, AB55 5PH.	Spring	Domestic Type B	Burn of Drum	Situated within PAB.	Yes
PWS39	06/00043/SPRING (Moray)	Marypark, Keith, Moray, AB55 5PE.	Spring	Domestic Type B	Burn of Drum	Situated within PAB.	Yes
PWS40	07/00227/SPRING (Moray)	North Whiteley, Keith, AB55 5PE.	Spring	Domestic Type B	Burn of Drum	Situated within PAB.	Yes
PWS41	PWS-G2977 (Aberdeenshire)	Brodie Cottage, Cairnie, Huntly, Aberdeenshire, AB54 4UA.	Well	Domestic Type B	Unnamed tributary of Burn of Cairnie	100 m to the west and downgradient of PAB.	Yes
PWS42	PWS-G3000 (Aberdeenshire)	Brodie Cottage / Caravan Brodie Cottage, Cairnie, Aberdeenshire, Huntly.	Unknown	Domestic Type B	Unnamed Tributary of Burn of Cairnie	110 m to the east and downgradient of PAB.	Yes
PWS43	07/00029/SPRING (Moray)	Whitehillock, Keith, Moray, AB55 5PH.	Spring	Domestic Type B	Unnamed tributary of Burn of Cairnie	100 m to the south and downgradient of PAB.	Yes
PWS44	07/00164/SPRING (Moray)	Blackhillock, Croft, Keith, Moray, AB55 5NY.	Spring	Domestic Type B	Unnamed Tributary of River Isla at Auchorties	Situated within PAB.	Yes
PWS45	07/00127/SPRING (Moray)	Greens of Auchorties, Keith, Moray, AB55 5NY.	Spring	Domestic Type B	Unnamed Tributary of River Isla	Situated within PAB.	Yes
PWS46	06/00372/SPRING (Moray)	Auchorties, Keith, Moray, AB55 5NY.	Domestic Type B	Spring	Unnamed Tributary of River Isla at Auchorties	Situated within PAB.	Yes
PWS47	07/00228/SPRING (Moray)	Springbank, Denwell Road, Keith, Moray, AB55 5NY.	Domestic Type B	Spring	Unnamed Tributary of River Isla at Auchorties	440 m to the north west and downgradient of PAB.	Yes
PWS48	07/00161/WELL (Moray)	Braehead Farm, Keith, Moray, AB55 5NU.	Domestic Type B	Well	Unnamed Tributary of River Isla at Auchorties	870 m to the north west and downgradient of PAB.	Yes
PWS49	07/00125/SPRING (Moray)	Meikle Cantly, Grange, Keith, Moray, AB55 6LJ	Domestic Type B	Spring	Unnamed Tributary of River Isla, Gardenhead	400 m south east and upgradient of PAB.	No
PWS50	06/00083/BOREHO (Moray)	Gardenhead Grange Keith Moray, AB55 6LJ	Domestic Type B	Borehole	Unnamed Tributary of River Isla, Gardenhead	Adjacent to the south of the PAB.	Yes
PWS51	15/00012/BOREHO (Moray)	Gardenhead Croft, Grange, Keith, Moray, AB55 6LJ	Domestic Type B	Borehole	Unnamed Tributary of River Isla, Gardenhead	140 m south east and upgradient of PAB.	No

Table 2.2: Private Water Supply Abstractions Within Hydrological and Hydrogeological Study Area							
Figure PWS Ref	Supply Reference (Council)	Discharge Operator and Location	Type of PWS	PWS Purpose	Sub Catchment	Distance Between Source and PAB	Potential Connection to PAB?
PWS52	06/00001/SPRING (Moray)	Haughs Of Grange, Grange, Keith, AB55 6SD	Domestic Type B	Spring	River Isla	750 m east and downgradient of PAB.	Yes
PWS53	09/00011/SPRING (Moray)	Thornton Croft, Grange, Keith, Moray, AB55 6SB	Domestic Type B	Spring	Unnamed Tributary of River Isla, Thornton	245 m and downgradient of PAB.	Yes

### 2.2.2 Licensed Discharges

An Envirocheck report has identified a list of 38 SEPA licensed discharges which are situated within the Planning Application Boundary (PAB) (Landmark, 2017 and 2018). Table 2.3 provides details of each of these licensed discharges within the PAB and Figure 5.3.1 of the EIA Report shows their respective locations.

Licensed Discharge Figure Reference	SEPA Licensed Discharge Reference	Licensed Discharge Operator and Address	Type of Discharge	Receiving Water Environment	Sub Catchment
LD1	B/94/18/U	Mr Stuart Gauld, New House, Linkbraeheads Farm, Portsoy.	Sewerage discharge	Groundwater	Scattery Burn
LD2	B/67/46	W A Reid, Potterstown, Fordyce.	Sewerage discharge	Freshwater stream / river	Scattery Burn
LD3	B/89/19	Mr and Mrs Mair, New House Muirfield, Fordyce.	Sewerage discharge	Groundwater	Scattery Burn
LD4	B/92/27/U	Mr R Farquhar, Muirfield Cottage, Fordyce.	Sewerage discharge	Groundwater	Scattery Burn
LD5	B/88/3	Mr A W Spearing Michael G Boyd, New House, Glassaugh Lodge, Portsoy	Septic Tank	Groundwater/ Freshwater Stream/ River	Burn of Fordyce
LD6	B/81/1(R)	Grampian Regional Council, Fordyce Sewage Treatment Works	Sewerage Discharge	Freshwater Stream/River	Burn of Fordyce
LD7	B/67/43 B/67/44 B/67/45	E T Chalmers, Hallyards, Fordyce.	Agricultural and sewerage discharge, septic tank	Freshwater stream / river	Burn of Fordyce
LD8	B/88/6	Mr and Mrs G Mair, New House, Hallyards, Fordyce, Banff.	Sewerage discharge	Freshwater stream / river	Burn of Fordyce
LD9	B/73/9 B/73/8	J Stewart & Sons, Cultain, Fordyce.	Agricultural and sewerage discharge	Freshwater stream / river	Burn of Fordyce
LD10	B/68/4 B/68/5	J & E Lowrie, Newton, Fordyce	Septic tank, agricultural discharge	Freshwater stream/river	Burn of Fordyce
LD11	B/73/72 B/73/73	C and G Stewart, Little Knows Farm, Deskford, Cullen.	Trade (swimming pool contents) and agricultural discharge	Freshwater stream / river	Burn of Deskford
LD12	B/68/11 B/68/10	F Ewan Croftgloy Deskford Cullen	Agricultural discharge and septic tank	Freshwater stream/ river	Burn of Deskford
LD13	B/73/61 B/73/60 B/73/59 B/73/58	J & D Bruce Broadrashes Deskford Cullen	Agricultural discharge and septic tank	Freshwater stream/ river	Burn of Deskford
LD14	B/73/65 B/73/66	W Fordyce, Mid Skeith, Deskford.	Agricultural and sewerage Discharge	Freshwater stream / river	Burn of Deskford
LD15	B/68/31	J Milton Craibstone Deskford	Septic tank	Freshwater stream/river	Burn of Deskford

Table 2.3: Licensed Discharges within PAB

Licensed Discharge Figure Reference	SEPA Licensed Discharge Reference	Licensed Discharge Operator and Address	Type of Discharge	Receiving Water Environment	Sub Catchment
		Cullen			
LD16	D/90/77	Mr David Sclater, New Dwellinghouse, Goukstone, Grange, Keith.	Sewerage discharge	Groundwater	Burn of Paithnick
LD17	D/72/30 D/72/29	W Wilson Goukstone Grange Crossroads Keith	Agricultural and sewerage discharge	Freshwater stream/ river	Burn of Paithnick
LD18	D/72/23 D/72/24	K C Bowie, Burnend, Grange, Keith.	Agricultural and sewerage discharge	Freshwater stream / river	Burn of Paithnick
LD19	D/91/103/U	Mr M Letham, Dwellinghouse, Newton Of Balnamoon, Grange	Septic Tank	Groundwater	Burn of Paithnick
LD20	D/90/4 D/90/1	Mr J Bliss, Dwellinghouse / Furniture Production Factory, The Smithy, Grange.	Sewerage discharge	Groundwater	Burn of Paithnick
LD21	D/86/11	Innes Clarke, New House At Crannoch, Grange	Septic tank	Ditch	Burn of Paithnick
LD22	D/89/71	John C Whyte, Mid Paithnick, Crossroads, Grange.	Sewerage discharge	Freshwater stream / river	Burn of Paithnick
LD23	D/92/83/U	Mr & Mrs I Legge, New House, Bearhill	Septic tank	Groundwater	Burn of Paithnick
LD24	D/92/82/S	Mr K Mintern, Dwellinghouse, Cantly Croft,	Septic tank	Freshwater stream/ river	Burn of Ardrone
LD25	D/93/78/U	William R Simmers, Engineering Workshop and Offices.	Sewerage discharge	Not specified	Burn of Drum
LD26	D/71/23	Banff County Council, Backmuir Council Houses, Keith	Septic tank	Freshwater stream/ river	Burn of Drum
LD27	D/70/35 D/70/36	J M Watt, Netherton, Keith	Septic tank and agricultural discharge	Freshwater stream/ river	Burn of Drum
LD28	D/69/25 D/69/27 D/69/26	R M Robertson, Greenwood, Keith.	Sewerage and agricultural discharge	Freshwater stream / river	Burn of Drum
LD29	D/69/9 D/69/8	W Milne and Son, Newtack, Keith.	Sewerage and agricultural discharge	Freshwater stream / river	Burn of Drum
LD30	D/69/10 D/69/11	R C Geddes, Marypark, Keith.	Agricultural and sewerage discharge	Freshwater stream / river	Burn of Drum
LD31	D/69/6 D/69/7	C and C A Bain, North Whiteley, Keith.	Agricultural sewerage discharge	Freshwater stream / river	Burn of Drum
LD32	D/86/26	Miss E Sandford, House At Greens Of Auchorties, Blackhillock, Keith	Septic tank	Freshwater stream/ river	Burn of Drum
LD33	B/91/15/U	Mr & Mrs J Mcvean, New House   Rathven School, Rathven, Buckie	Septic tank	Groundwater	Unnamed tributary of Burn of Cairnie



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