Appendix T-2 Addendum to Section 106 Geophysical Survey Review

Addendum to:

Section 106 Geophysical Survey Review for Icebreaker Wind

Prepared for:

Icebreaker Windpower Inc.

Icebreaker Windpower Inc. 1938 Euclid Avenue, Suite 200 Cleveland, Ohio 44115



Lead Agency: Department of Energy (DOE)

Submitted by: David M. VanZandt, MMA RPA VanZandt Engineering 1226 Lakeland Avenue Lakewood, Ohio 44107 216-956-2338 <u>dvanzandt@sbcglobal.net</u>

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This addendum provides a more detailed description of the data analysis performed in the "Section 106 Geophysical Survey Review for Icebreaker Wind" report prepared for Icebreaker Windpower Inc. and the Department of Energy, January 2017. All results and conclusions from the previous report remain unchanged.

David M. VanZandt, MMA RPA April 10, 2018

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5.0 DATA ANALYSIS

The geophysical survey conducted by Canadian Seabed Research Ltd. (CSR) from mid-August to early September 2016 of the Icebreaker Wind Project APE's provided four sets of remote sensing data to analyze for the potential presence of artifacts or properties of historical significance that would impact the construction of the Project. The remote sensing devices that provided these data sets were: Sidescan sonar, Magnetometer, Sub-bottom profiler, and multibeam bathymetry. Each of the sensors' data sets will be addressed independently, as well as in combination, to determine the possible presence of artifacts or properties of historical significance.

5.1 Sidescan Sonar Data Analysis

The sidescan sonar data was acquired using Klein SonarPro software in XTF file format. The data was post-processed and analyzed by CSR and VanZandt Engineering using SonarWiz software.

A total of 271 line km of sidescan data was analyzed within the turbine (Figure 1) and export cable (Figure 2) APEs. (Note: For full size images see appendices)







Figure 2 Export Cable Survey Area Sidescan Mosaic (CSR)

The Side Scan Sonar data showed a generally uniform and smooth lake bottom. Some evidence of ripples or other sedimentary features were observed along the survey route (Figure 3) and some areas of the bottom revealed enhanced reflectivity denoting a change in geological structure (Figure 4). These locations were assigned a contact number, and corresponding imagery and information can be found in Appendix A.



Figure 3 Sediment Rippling along Export Cable Route (CSR)



Figure 4 Sidescan Sonar Data Illustrating the Surficial Boundary between the Cleveland Ridge Sand/Gravel and Post Glacial Silt/Clay, EKP 2. (CSR)

The majority of identified contacts were geological in nature, while some possible historic contacts were the result of old trash dumpings (rectangular, circular, and linear contacts) and dredge spoil (circular contacts) in the survey areas (Figure 5). The analysis of these contacts will be discussed in detail below. A total of 455 identified contacts were analyzed and the detailed description of the contacts can be found in Table 1 (Locational data in NAD83

Geographic, NAD83, Zone 17, M, and NAD83, Ohio State Plane North, US Survey Feet). See Appendix A for complete contact data with images.



Figure 5 Sidescan Sonar Record of Dredge Spoil. Center of Data Example is Located 150 m E of EKP 12. (CSR)

		Associated Mag Anomaly ID	•		3		*	M84		M49, M50			3		×				3								*				2			3		3	10		10	*	-	35			30	*		
		Description	inear Contact	Inear Contact	foint Source (Probable Buoy Mooring)	Circular Contact (Protable Bucy Mooring)	incular Contact	Voint Source	bint Source	Grouter Contact (Probable Bucy Mooring)	lectangular Contact	inear Contact	Inear Contact	lactangular Contact	Inear Contact	Drouter Contact (Possible Dredge Spoll)	ow Reflectivity Patch (Possible Slag)	ow Reflectivity Patch (Possible Slag)	Inear Contact	ow Reflectivity Patch (Possible Slag)	Ineer Contact	Inear Contact	Circular Contact (Probable Tire)	oint Source	inear Contact	Inear Contact	Inear Contact	ow Reflectivity Patch (Possible Slag)	Inear Contact	Inear Contact	Inear Contact	Insar Contact	inear Contact	ow Reflectivity Patch (Possible Stag)	Droular Contact	Circular Contact (Probable Dredge Spoll)	bectangular Contact	ow Reflectivity Patch (Fossible Slag)	Prouler Contact	ow Reflectivity Patch (Foisible Slag)	ow Reflectivity Patch (Possible Stag)	ow Reflectivity Patch (Possible Stag)	foint Source (Proteble Boulder)	ow Reflectivity Patch (Possible Stag)	ow Reflectivity Patch (Possible Slag)	ow Reflectivity Patch (Poisible Slag)	inear Contact	Addree Constant Manakakin Boulland
		LEDT)	005_1301_1	004 1150 L	003 1241 P	006 1317 C	005_1408_C	002_1121 P	003 1241 P	005_1408_C	029 0936 8	029 0936 1	033_1522 L	033 1542 R	027 1307 1	024_1106_C	023 0937 1	027 1307 1	024 1106 1	028 1514 1	028 1514 L	033 1602 1	033 1602 C	032 1136 P	029 0838 U	028 1514 1	023 0937 1	028 1514 1	026_1401 L	033_1602_L	024_1106 L	026_1401_L	024 1106 1	026_1401 1	033 1602 C	033 1602 0	030_1037 8	025_1018_1	026 1401 0	025_1018_1	029 0838 1	032 1136 6	024 1046 P	032_1136_L	032_1136 1	030 1037 L	029_0838_L	ALL ALLA DOLL
		(60836130100	60827115000	60828124200	60827131700	60826140900	60828112100	60828124200	60626140900	60831093600	60831093600	60827152200	60827154200	60830130800	60826110600	00/160/2809	60830132800	60826110600	60826151400	60826151400	60827160200	60827160200	60830113600	60631084100	60826151400	0011001100	60826151400	60626140200	60827160200	60826110600	60828140200	50825110600	60828140200	60827160200	60827160200	60831103800	60828101800	60828140200	60828101800	60831084100	60830113600	60826104600	60630113600	60830113600	60831103800	60831084100	ALCONCELLA MANA
		i i	0.2	-	-	-	-	0.6	0.6 1		0.1 1		0.2 1		0.2 1			0.6 1	0.0	0.5	-		0.1	0.5 1		0.1	0.1	0.4 1	,	0.1 1	0.2 1	-	0.1	-		0.7	-	. 1	-	- 1	-		0.8	. 1	-		0.1 13	100
		1 Moth	0.5	0.2	1,0	7,0	3.5	1.2	0.8	5.5	1.5	1.8	0,3	2.4	0.9	8,6	2.4	1.4	0.4	1.5	0.5	0.2	0.5	0.7	0.5	0,2	0.5	0.8	0.4	0.6	0.4	0.8	0.3	11	1,4	2.2	3.4	1.1	112	5.9	3.1	5.6	67	3.4	3.1	17.4	0.4	1.4.4
		(L)	26	30.0	25	7.4	3.9	2.2	1.8	5.5	3.0	3.0	3.2	35	5.7	19.5	5.5	8.1	11.0	6.7	50	3.2	0.8	27	5E	9.2	26	2.0	8.1	2.8	7.7	54	11.1	22	4.9	2.4	6.0	1.9	2.1	45	4.5	7.0	2.6	73	3.7	17.9	4.0	
Sidescan Sonar Conta		Distance from Proposed Route (m)	35.56	0.9	51.6	10.6	1.6	120.5	111.8	7.2	44.3	79.4	175,5	125.3	15.1	302,8	177.1	62.8	150.9	42.5	36.0	139.4	109.6	157.8	66	42.1	2,862	32.6	87.9	112.2	126.6	69.9	37.761	80.8	140,8	115.2	69.6	83.5	47.1	83.4	415	126.2	140.0	1513	135,5	36.8	69.7	4.4
		Bathymatry (m)	17.8	L'11	17.6	17.5	17.3	27.2	17.2	17.1	17.1	16.9		16.0	15.8	16.4	-	15.9	15.9	15.8	15.8	15.7	0.0	15.7	15.8	15.8	15.7	15.8	15.8	15.7	15.7	15.7	15.7	15.7	15.4	15.4	15.4	15.6	15.6	15.6	15.4	15.3	15.6	15.2	15.3	15.3	15.2	40.4
	late Plane North	North (US survey feet)	711527.0	711327.6	709748.8	2262606	207357.3	706744.1	706731.8	705387.5	705230.1	704180.9	701744.9	700923.0	699340.0	699090.4	698016.5	6974513	697772.6	697352.2	697260.4	696589.3	696304.9	696157/6	696657.1	696800.4	697131.6	696683,8	096865.8	696110.1	696965.1	696531.5	696712.2	696418.8	695307.1	695371.7	695497.5	696049.7	695909.3	696031.6	695558.2	695125.9	696112.8	695014.5	695072.2	695158.5	695196.7	000,000
	NAD83 Ohio SI	East (US survey feet)	2154951.3	2155248.0	2156678.1	2156769.2	2158295.7	2159230.9	2159245.5	2159786.4	2159819.9	2161527.9	2165392.0	2167268.2	2171185.5	2172256.9	2174769.0	2175028.2	2175041,4	2175071,8	2175197.3	2175230.0	2175549.6	2175905.2	2176001.5	2176095.4	2176145.0	2176246.2	2176291,0	2176309.5	2176374.7	2175788.0	2176920.9	2177073.4	2177604,4	2177662.2	2177744,4	2177778.2	2177786.9	2177811.0	2,31378,26,2	2178043.2	2178052.1	2178076.5	2178078.5	2178191.4	2178302.6	ACCOUNT OF
	TM Zone 17	North (m)	4607545.7	46075543	4607095.8	4606957.2	4606358.7	4606167.0	4606163.1	4605750.8	4605702.6	4605374.0	46046115	4604351.2	4603848.3	4603766.6	4603426.2	4603252.6	4603350.5	4603222.2	4603193.6	4602989.0	4602900.7	4602853.9	4603005.6	4603048.7	4603149.4	4603012.4	4603067.6	4602837.3	4603097.4	4602963.2	4603017.5	4602927.3	4602585.9	4602605.2	4602643.1	4602811.2	4602768.3	4602805.5	4602661.2	4602528.3	4602828.9	4602494.2	4602511.8	4602537.5	4602548.5	ADDINE TO A
	NADE3 U	East (m)	431841.5	431930.9	432358.2	432383.6	432838.4	433120.1	433124.5	433282.2	433291.6	433806.4	43,4970.8	485538.1	436723.1	437048.2	437807.9	617883.9	437889.6	437896.6	437934.4	437940.8	438036.7	438144.3	438176.2	438205.6	438222.6	438250.9	438265.5	438267.2	438291.5	438415.2	438456.6	438501.5	438657.4	438675.4	438701.1	438714.3	438716.2	436724.2	638726.3	438790.2	1.87854	435799.7	438800.7	435835.5	438869.6	ALDERAC
	ographic	Longitude	81.8181120	81.3170325	81.8118483	81.8115284	81.8060026	\$1.3026013	81.3025480	81.8006100	81.3004922	81.7942784	81.7802254	81.7733918	81.7591219	81.7552133	81.7460655	81.7451360	81.7450774	81 7449797	51.7445240	81 7444257	61.743.2666	81.7419717	81.7416041	81.7412561	\$1.7410623	81.7407067	81.7405391	81.7404957	81.7402303	81.7387334	\$1.7382422	81.7376941	\$1.7357889	61.7355758	81.7352714	81 735 1299	81.735 1027	81.73S0109	81.7349705	81,7341911	81.7341269	81.7340730	81.7340639	81.7336485	81.7332420	CHEVIDET 10
	NADR3 Ge	Latitude	11.6176293	11.6170757	11.6127124 -	11.6114662	11.6051141	11.6044110	11.6043767 -	11.6006765	11,6002432	115973761	11.5905543	11.5882561	11.5838214	11.5831114	11.5801051	11.5785477	11.5794293	11.5782747	- 901091	11.5761775	11.5753894	11.5749766	11.5763451	11.5767362 -	11.5776437	11.5764126 -	11.5769110 -	11.5748367 -	41.5771813 -	41.5759815	41.5764743	41.5756655	41.5726019	41.5727777 -	41.5731210	11.5746357	11.5742500	11.5745852	11.5732856	11.5720940 -	11.5748022	11.5717875	659612511	11.5721798	11.5722820	11 5750576
1	-	9	IJ	a	0	3	0	8	0	13	9	C10	C11 -	C12	C13 4	CIA	C15	C36	C17	C18	C19	80	C21	222	C23	C24	12	80	C27	C28	C29	C30	C31	C32 4	CBB	Cor	C35	C36	C37	C38	Cas	C40	C41 A	C42 4	C43	Cat	C45	246

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Table 1 Sidescan Sonar Contacts Table

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NADES	Geographic	NAD83 U	TM Zone 17	NAD83 Ohio 5	tate Plane North									
Latitude	Longitude	East (m)	North (m)	East (US survey feet)	Nerth (US survey feet)	Bathymetry (m)	Proposed Route (m)	(III)	(m)	(H)	Sonar Filename (.xrf)	(LEDI)	Description	Associated Mag Associated VI
41.572795	8 -81 7330514	438885.9	4602605.4	2178352.8	695384.3	15.3	12.1	1.3	1.0	0.5	160826151400	028_1514	Point Source (Probable Bouider)	
41.572663	8 -81.7321082	438964.4	4602590.1	2178611.3	695338.5	15.3	12.9	12	0.9	0.7	160826151400	028_1514	Point Source (Probable Bouider)	
41.572690	9-81.7312521	43/9035.8	4602592.5	2178845.5	695350.5	15.3	49.9	2.8	1.2	6.3	160830134500	027_1345	Low Reflectivity Patch (Possible Slag)	
41.571990	9 -81.7311854	43/9040.7	4602514.7	2178866.0	005005.6	15.2	15.6	4,4	2,2		160831084100	029 0838	Low Reflectivity Patch (Pousible Slag)	
41.571761	2 -81.7305695	439091.8	4602455.8	2179035.2	695013.4	15.2	13.2	3.9	0.5	0.3	160831084100	029_0838	Unear Contact	
41.570295	8 -81,7305075	43/9055.6	4602326.1	2179056.9	694479.6	15.3	153.3	3.6	0.5	0.0	160830113600	032_1136	Unear Contact	
41.570311	6 -81.7300963	439129.9	46023275	2179169.4	694486.3	15.3	135.3	3.6	0.6		160827160200	033 1602	Unear Contact	
41.569797	3 -81,7300883	439130.1	4602270.4	2179173,2	634296.9		185,0	13.8	6,7		160827160200	033_1602	Unknown Contact	
41.571144	0/21627.18- 2	439209.0	4602419.4	2179423.7	694792.1	15.3	16.5	4.0	1.7		160831084100	8580 920	Low Reflectivity Patch (Possible Siag)	
41.571106	9 -81.7291492	439209.6	4602415.2	2179426.0	694778.4	15.3	19.9	25	1.6		160831084100	029 0838	Low Reflectivity Patch (Possible Stag)	
41.571187	0 -81.7291293	439211.3	4602424.1	2179431.2	694807.6	15.3	11.3	1.7	2,3		160831084100	029,0838	Low Reflectivity Patch (Possible Slag)	3
41.571057	5 -81.7290973	439213.9	4602409.6	2179440.3	694760.5	15.3	22.6	2.1	1.7		160831084100	029 0838	Low Reflectivity Patch (Possible Slag)	
41.571207	6 -81.7290676	439216.5	4602426.3	2179448,0	694815.3	15.3	6.8	6.1	3.6		160631064100	029_0838	Low Reflectivity Patch (Possible Slag)	
41.571155	0 41.7287878	439239.8	4602420.3	2179524.7	694796.8	15.3	0.7	3.1	9'0	0.2	160831084100	029_0838	Unear Contact	4
41.569826	5 -81.7284158	439269.6	46022725	2179630.6	694313.6	15.2	115.0	4.1	0.4	0.1	160827160200	033_1602	Linear Contact	3
41.570578	2 -81.728.4075	439271.0	4602367.1	2179630.3	694624,0	15.2	31.6	4.2	1.2	0.4	160831103800	7EO1_0ED	Unear Contact	
41 569302	2 -81.7283231	439276.8	4602214.2	2179657.8	694122.8	15.2	162.4	3.3	0.6	0.3	160827160200	033 1602	Unear Contact	M92
41.569673	3 -81.7283218	439277.2	4602255.4	2179657.0	694258.0	15.2	125.6	1.5	0.5	0.1	160827160200	033_1602	Unear Contact	
41.570613	8 -81.7282603	439263.3	4602359.8	2179670.8	694600.9	15.2	32.2	3.4	1.0	•	160831084100	025 0838	Low Reflectivity Patch (Possible Slag)	4
41.569811	8 -81.7282402	439284.2	4602270.8	2179678.9	694308.7	15.2	109.4	1.9	0.5		160827160200	033, 1602	Linear Contact	*
41.571194	6 -61.7282318	439286.2	4602424.3	2179676.7	094812/6	15.3	25.5	3.3	0.8	0.4	160626151400	028 1514	Unear Contact	3
41.570736	81.7282010	4392883	4602373.4	2179686.6	694645.6	15.2	17.9	5.2	1.5		160831084100	029 0838	Low Reflectivity Patch (Possible Slag)	
41.570617	2 -81.7251394	1992933	4602360.1	2179703.8	694602.4	15.2	27.0	8.5	3.5		160631064100	029 0838	Low Reflectivity Patch (Possible Stag)	4
41.570522	5 -81.7280796	439298.2	4602349.5	2179720,5	694568.0	15.2	33,8	3.8	0.7		160831084100	8580_620	Low Reflectivity Patch (Possible Slag)	
41.570107	4 -81.7290231	439302.6	4602303.4	2179737.3	694416.9	15.2	72.0	4.2	2.8	0.1	160831084100	029 0838	Circular Contact	
41.570583	1 -81.7280016	439304.8	4602356.2	2179741.7	694590.3	15.2	24.8	2.6	2.1		150831084100	029_0838	Low Reflectivity Patch (Possible Slag)	X
41.570156	2 -81.7279966	439304.8	4602308.8	2179744,4	694434.8	15.2	66.1	4.2	1.8		160831064100	029 0838	Choular Contact	
41.570299	2 -81.7279354	439310.0	4602324.7	2179760.7	694487.0	15.2	49.8	2.5	1:6		160831084100	029 0838	Low Reflectivity Patch (Possible Slag)	
41.570305	31.7278572	439316.6	4602325.2	2179782.1	694489.3	15.2	46.1	3.0	1.3		160831084100	029_0838	Low Reflectivity Patch (Possible Slag)	
41.570266	8 -81.7278261	1,918985	4602321.0	7.0979715	694475.5	15.2	48.5	4.2	1.8		160831084100	029 0838	Low Reflectivity Patch (Possible Slag)	,
41.572395	-81.7277941	8.626969	4602557.2	2179792,6	695251.0	15.2	159.9	2.8	1.6		160827093700	023_0937	Low Reflectivity Patch (Possible Slag)	
41.569142	1 -81.7270113	439386.0	46021955	2180017.3	694067.7	15.1	125.3	3.3	0.4	0.0	160827160200	033 1602	Unear Contact	2
41.569489	2 -81.7267636	43/9407.0	4602233.9	2180083.9	694194.7	15.1	81.6	1.8	11		160831103800	1010 1011	Circular Contact	~
41.571945	0 -81.7264907	439432.0	4602506.4	2180150.7	695090.2		168.4	3.1	3.0		160827093700	023_0937	Chouler Contact	4
41.571874	2 -81.7263764	439441.5	4602498.4	2180182.2	695054.7	15.3	1.901	7.2	4.1		160827093700	023 0937	Low Reflectivity Patch (Possible Sag)	
41.571085	8-81.7263525	439442.7	4602410.9	2180191.3	694777.5	15.3	90.3	3.0	0.6	0.1	160828140200	026 1401	Unear Contact	M113, M214
41.571785	81.736255	439451.2	4602488.5	2180214.5	695032.7	15.3	162.2	1.9	2.5		160827093700	023_0937	Low Reflectivity Patch (Possible Slag)	M82
41.570744	3 -81.7261001	439463.5	4602372.8	2180261.4	694653.7	15.2	67.2	2.6	1.8	0.6	160828095800	025 0958	Point Source (Probable Boulder)	
41.571412	2 -81.7260088	439471.7	4602446.9	2180284,3	694897.2	15.2	135.9	13.6	4.2		160827093700	1560 520	Low Reflectivity Patch (Possible Slag)	M215
41.571494	5 -81.7259543	6.924664	4602456.0	2180298.9	694927.4	15.2	146.1	6.7	4.9	•	160827093700	023 0937	Low Reflectivity Patch (Possible Stag)	M216
41.570961	5 -81.7259081	439479.7	4602396.8	2180313.3	694733.3	15.2	96.1	10.1	0.5	0.1	160828140200	026_1401	Unear Contact	M112
41.570574	1 -81.7254051	459521.3	4602353.4	2180452.2	694593,5	15.2	78.5	9.5	0.5	0.2	160628095800	025,0958	Unear Contact	
41.570281	6 -81.7252589	439533.2	4602320.8	2180493,1	694487.1	15.1	56.0	11.2	4,0		160828095800	025 0958	Low Reflectivity Patch (Possible Slag)	*
41.570450	8 -81.7251787	439540.0	4602339.5	2180514.5	694549.0	13.1	75.6	13.0	5.1	1	160625093600	025 0958	Low Reflectivity Patch (Possible Slag)	3
41.570384	3 -81.7251217	439544.7	4602332.1	2180530,3	694524.9	15.1	73.5	4.9	2.1		160828095800	025_0958	Low Reflectivity Patch (Possible Slag)	
DETURNING	7000001 10 10	ATONOR R	46023079	2180698.7	69448.4	15.0	75.2	12.4	7.5		1400828142200k	026 1421	It can the Ruity Date: (Druchle Class)	

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								Sidescan Sonar Conta	1						
	NADE3	Geographic	NAD63 U	TM Zone 17	NAD83 Ohio SI	late Plane North									1000
9	Latitude	Longitude	East (m)	North (m)	East (US survey fact)	North (US survey feet)	Bathymetry (m)	Distance from Proposed Route (m)	(m)	Width (m)	Theight (m)	Sonar Filename (xrtf)	Survey Line (_EDT)	Description	Associated Mag Anomaly ID
C93	41.5697446	-81.7244667	439598.7	4602260.6	2180711.6	694293.4	14.9	35.5	6.1	2.5	0.6	160826151400	028_1514	Low Reflectivity Patch (Possible Siag)	
C94	41.5695610	-81.7244551	439599.5	46022403	2180715,4	694226.5	14.9	18.1	6.2	2.8	,	160826151400	028 1514	Low Reflectivity Patch (Possible Stag)	
CSS CSS	41.5680934	81.7244120	439601.7	4602077.3	2180731.9	693691.9	15.1	123,0	1.5	1.4	0.6	160827160200	033_1602	Point Source (Probable Bouider)	4
C96	41.5679699	81.7243582	439606.1	4602063.5	2180747.0	693647.0	15.1	132.9	5.4	0.5	1.0	160827160200	033 1502	Unear Contact	
C97	41.5679352	-81.7242984	439511.1	4602059.6	2180763.5	693634.5	15.1	133.8	4.9	0.5	0.2	160830113600	032,1136	Unear Contact	-
CSB	41.5679791	-81.7240365	439632.9	4602064.3	2180835,0	693651.1	15.1	119,1	2.2	0.4	0.1	160827160200	083_1602	Unear Contect	
660	41.5691417	-81.7239699	439639.6	4602193.4	2180849.5	694074.9	14.9	3.3	6.6	3.9		150831082100	029 0818	Unear Contact	
C100	41.5691421	-81.7270113	439386.0	4602195.5	2180017.3	694067.7	15.1	125.3	3.5	0.9	0.4	160831082100	029_0815	Unear Contact	
C101	41.5676910	-81.7237505	439656.5	4602032.1	2180914.2	693546.9	15.0	135,6	2.5	0.4		160830113600	032_1136	Unear Contact	
C102	41.5694327	-81.7237330	439659.6	460222555	2180913.4	694181.5	14.9	34,6	2.9	3.5	0.3	160826151400	028_1514	Low Reflectivity Patch (Possible Slag)	M155
C103	41.5679406	-81.7236402	439666.0	4602059.8	2180943.6	693638.1	15.0	106.9	4.2	0.3	•	150830113600	032_1136	Unear Contact	
C104	41 5691801	-81.7235985	43/9670.6	4602197.4	2180951,0	694089.8	14.9	15.4	4.9	3.2		160826151400	028_1514	Low Reflectivity Patch (Possible Slag)	
C105	41.5692913	-81.7235862	439671.7	4602209.7	2180954,0	694130.3	14.9	26.7	2.8	0.9	0.7	160626151400	028_1514	Point Source (Probable Bouider)	4
C106	41.5692118	1 -81.7234997	439678.9	4602200.8	2180977.9	694101.6	14.9	22.5	1.8	1.0	0.5	160826151400	028_1514	Point Source (Probable Bouilder)	с. Э
C107	41.5691607	81.7294616	439682.0	4602195.1	2180988.5	694083.1	14.9	19.0	3.3	2.2	0.3	160826151400	028_1514	Low Reflectivity Patch (Possible Stag)	x
C108	41.5588718	13233361	439592.2	4602163.0	2181023.8	1.879563	15.0	4.1	4.0	2'0	0.1	160831082100	8180_029	Unear Contact	1
C109	41.5694729	81.7232421	439700.6	4602229.6	2181047.6	694197.4	14.9	56.2	2.1	1.0	0.2	160828095800	025_0958	Point Source (Probable Bouider)	
C110	41.5684564	-81.723 1088	439710.7	4602116.7	2181087,3	693827.3	15.0	35.4	3.8	0.7	0.1	160831103800	030_1037	Unear Contact	1
C111	41.5689415	41.7233011	439711.5	4602170.5	2181087,9	694004.1	15.0	12.1	2.3	0.4	0.3	160826151400	028_1514	Unear Contact	100 C
C112	41.5675586	-81.7224835	439762.0	4602016.6	2181261,4	693501.7	14.8	97,6	4.6	3,0		160830113600	032_1136	Low Reflectivity Patch (Possible Slag)	X
C113	41.5686835	-81.7224107	439769.2	4602141.4	2181277.6	8.116660	15.0	14.8	3.8	1.7		160826153400	028_1534	Low Reflectivity Patch (Possible Slag)	3
C114	41.5687263	-81.7223625	439773.2	4602146.1	2181290.7	693927.5	15.0	20.9	3.8	1.1		160826153400	028 1534	(ow Reflectivity Patch (Possible Slag)	
C115	41.5681043	-81.7222909	439778.6	4602077.0	2181312.3	693701.0	14.5	36.6	2.5	0.7	1.0	160831082100	029 0818	Point Source (Probable Bouider)	2 20
C116	41 5685281	-81.722836	439779.7	4602124.1	2181313.2	693855.4	14.9	4.8	4.6	6'1		160826153400	028_1534	(ow Reflectivity Patch (Possible Slag)	
C117	41.5687008	81.7222544	439782.2	4602143.2	2181320.3	693918.4	14.9	22.7	7.4	3.5	0.2	160826153400	028 1534	Low Reflectivity Patch (Pountie Stag)	
C118	41 5682772	-81.7222051	439785.9	4602096.2	2181335,2	693764.2	14.8	16.5	3.6	1.5	0.3	150826153400	028_1534	Low Reflectivity Patch (Possible Slag)	a A
C119	41.5683570	0.41.7221252	439792.7	4602105.0	2181356.8	693793.5	14.9	5.6	9.1	3.4		160826153400	028 1534	Low Reflectivity Patch (Fossible Slag)	
C120	41.5682688	-81.7220727	439797.0	4602095.1	2181371.5	693761.5	14.8	12.0	4.1	0.6	0.2	160826153400	028 1534	Unear Contact	с. 22
C121	41.5586324	-81.7220719	439797.4	4602135.5	2181370.5	693894.0	14.9	23.4	4.0	2.5		160826153400	028_1534	Low Reflectivity Patch (Possible Slag)	M156
C122	41.5696807	-\$1.7219585	439807.8	46022518	2181398.1	694276.2	14.9	129.9	12.2	10.8		160826104600	024 1046	Low Reflectivity Patch (Possible Slag)	2
C123	41.5683659	-81.7219345	43/9808.5	4602105.8	2161408.9	2,797589	14.8	3.0	3.2	B,B		160826153400	028_1534	Low Reflectivity Patch (Possible Slag)	
C125	41.5684611	-81.7217073	439827.6	4602116.2	2181470.8	693832.4	14.8	21.3	1.2	1.0	1.0	160826153400	028 1534	Point Source (Probable Bouider)	M211
C126	41.5664987	-81.7215501	43/9838.9	4601898.2	2181520.2	693117.8		163.3	2.8	1.2	1.1	160827162200	033 1622	Rectangular Contact	*
C127	41.5684773	-81.7215392	439841.6	4602117.9	2181516.8	693838.7	14.8	29.7	15	1.5	0.5	160826153400	026_1534	Point Source (Probable Boulder)	10 14
C128	41.5678129	82.7215361	439841.3	4602044.1	2181529,8	693596.7	14.7	34.9	1.6	1.0	0.5	160831082100	029 0818	Point Source (Probable Boulder)	
C129	41.5682537	-81.7212608	439864.6	4602092.9	2181599.7	693758.0	14.8	19.1	1.3	0.4	0.5	160826153400	028_1534	Point Source (Probable Boulder)	MIS7
C130	41.5677509	-81.7207627	439905.7	4602036.7	2181731,6	693576.0	14.8	9.8	3.7	0.5	0.1	160831082100	029_0818	Unear Contact	
C131	41.5661169	-81.7201661	439953.9	4601854.9	2181900.2	692962.1	14.6	144.9	4.4	2.8		160830113600	032,1136	Low Reflectivity Patch (Possible Slag)	3
C132	41.5659769	-81.7201452	439955.5	4601839.3	2181906.4	692931.1	14.6	157.7	8.2	5,7		150830113600	032_1136	Low Reflectivity Patch (Possible Slag)	
C133	41.5686979	81.7201278	439959.5	4602141.4	2181902.3	693922.6	14.5	107.8	2.4	1.2	1.0	160826104600	024 1046	Rectangular Contact	
C134	41.5676314	\$ -\$1.7200550	439964.6	4602023.0	2181925.6	693534.2	14.8	7.0	2.0	0.6	0.5	160826153400	028_1534	Point Source (Probable Boulder)	100
C135	41.5676987	-81.7197246	459992.2	4602030.2	2182015,8	693559.5	24.9	26.5	3.7	2.1	•	160826153400	028_1534	Low Reflectivity Patch (Possible Slag)	
C136	41.5675313	-81.7196271	440000.2	46020115	2182043.1	693498.7	14.8	14.4	2.1	1.1	0.6	160826153400	028 1534	Point Source (Probable Boulder)	
C137	41.5667830	-81.7196209	440000.0	4601928.5	2152047.2	693226.1	14.6	56.2	3.7	0.9		160631062100	029 0616	Unear Contact	M192
C138	41.5676191	-81.7195825	440004.0	4602021.3	2182055,0	693530.8	14.8	24.7	6.3	4,5		160826153400	028_1534	Low Reflectivity Patch (Possible Siag)	M158
C139	41.5674205	81.7195334	440007.9	4601999.2	2182069.1	693458.6	14.8	7.4	25	1.7		160831062100	029 0818	Low Reflectivity Patch (Possible Slag)	10 10 10 10 10 10 10 10 10 10 10 10 10 1

Inducesion Officion Wind Demonstration Project - 2016 Marine Grephysical Survey Results

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	12 2 2021	Associated Mag Anomaly ID					-		1				а Э		2	8	3	10 N			4		æ		4			a A	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	M144	*	,		X	~	4	1	÷		2 2			3			3		
		Description	Unear Contact	Point Source (Probable Bouider)	Unear Contact	Unear Contact	Unear Contact	Point Source (Probable Bouider)	Unear Contact	Low Reflectivity Patch (Possible Siag)	Point Source (Probable Bouider)	Point Source (Probable Bouider)	Unear Contact	Low Reflectivity Patch (Possible Stag)	Point Source (Probable Bouider)	Low Reflectivity Patch (Possible Slag)	Jow Reflectivity Patch (Possible Slag)	Low Reflectivity Patch (Possible Slag)	Point Source (Probable Boulder)	Unear Contact	Unear Contact	Unear Contact	Unear Contact	Linear Contact	Unear Contact	Unear Contact	Unear Contact	Point Source (Probable Bouider)	Unear Contact	Unear Contact	Point Source (Probable Bouider)	Point Source (Probable Boulder)	Point Source (Probable Bouider)	Point Source (Probable Bouider)	Point Source (Probable Boulder)	Point Source (Probable Bouider)	Unear Contact											
		Survey Line (_EDT)	024_1046	028_1534	024_1046	026 1534	030_1057 1	029_0818	029 0818	033_1622	026 1421	024_1026	8180_650	025 0958	025 0958	026_1421	026 1421	033_1622	029 0818 1	027_1405	032_1116	028 1534 1	028 1534	028 1534	025 0958	028_1534	024, 1026	024 1026	024 1026	033_1622	028_1534	028 1534	029 0818 1	033 1622	029 0818 1	028_1534	026 1421	032 1116	032_1116	025 0818	8180_620	029 0818	030_1057	029 0818	033 1622	033 1622	028_1534	024 1026
	1988	onar Filename (.xm)	160826104600	000551553400	160826104600	160826153400	60831105800	60831082100	60831082100	60827162200	60828142200	160826102600	60831082100	60828095800	60828095800	160828142200	160828142200	60827162200	060831082100	0030140500	160830111600	60826153400	160626153400	160826153400	160828095800	60826153400	060826102600	160826102600	160826102600	60827162200	00826153400	60826153400	160831082100	60827162200	60831082100	160826153400	60828142200	160830111600	160830111600	60831082100	060831082100	160831082100	160831105800	160831082100	160827162200	160627162200	0046319183400	60826102600
		in in	0.5			0.1	-	0.3	0.6 1	0.1 1		-	0.3	0.1		0.9	0.7	0.2		0.1	0.3	0.1	0.1		0.3	0.6				0.4 1	0.1 1	0.6			0.2	0.1		0.2	0.5 1	0.1 1	-	0.8	0.6 1	0.4	0.5	0.5	0.6	0.8
		(m)	2,4	0.4	0,4	0.6	0.4	0.3	0.8	0,3	0.5	0,2	0.9	0,6	3.1	1.5	0.8	0.6	0.3	0.5	0.4	0.5	0.4	0.4	4.0	1.1	6.4	2.8	4.8	1.6	0.6	0.5	0,4	1.0	0.6	0.6	0.6	0.5	0,8	0.4	0.5	0.7	0.9	1.1	0.7	0.6	0.6	0.7
11	100	E I	3.6	2.6	3.5	3.4	4.0	3.0	1.0	5.7	5.7	6.8	4.0	2.9	10.6	1.6	14	2.4	3.8	8.0	17.8	4.9	5.2	2.9	8.3	1.2	12.4	4.8	10.4	1.8	2.7	5,0	72	7.2	7.3	7.7	4.0	4.4	1.1	1.8	4.0	2.3	1.4	2.2	1.1	0.9	1.0	3.0
Sidescan Sonar Conta		Distance from Proposed Route (m)	158.7	35.4	122.8	27.8	75.4	28.9	24.8	195.6	97.5	127.2	59.1	63.7	115.4	100.0	85.4	170.5	30.1	65.7	151.5	21.2	26.5	26.8	64.1	13.3	50'B	130.1	134,4	128.5	33.7	6.3	48.6	128.3	13.9	12.1	34.9	103.0	99.9	62.5	58.3	43.4	71.0	73.8	109.5	129.4	9,4	101.3
		Bathymetry (m)	14.8	14.7	14.9	14.8	14.8	14.8	14.8		145	14.4	14.2	14.3	14.4	14.4	14.4	1000	14.5	14.5	14.4	14.4	14.4	14.4	145	14.4	14.5	14.5	145	14.4	14.4	14.4	14.4	143	14.4	14.4	24.4	14.1	1.0.1	14.0	14.0	14.0	14.0	13.9	13.9	13.9	13.9	13.9
And the second se	tate Plane North	North (US survey feet)	694018.2	693264.9	693827.3	693444.6	692971.7	693135.1	693133.8	6132769	693083,4	693077.4	692322.6	692741.5	692758.7	692694.4	1.053630.1	691578.1	692089.7	692436.0	691574.7	692001.9	091957.9	691947.1	692287.4	692093.9	692374.6	692445.6	692523.5	691519.4	692089.1	691903.6	691702.4	691401.0	691787.8	6918123	692028.4	691130.5	691078.1	691168.8	691172.4	691207.1	690975.0	690957.0	690809.7	0/01/069	691120.7	691454.7
The second s	NAD83 Ohio S	East (US survey feet)	2182076.9	2182133.3	2182183.0	2182237.0	2182401.1	2182429.3	2182450.3	2152720/6	2183391.3	2183608.8	2183720.8	2183793.1	2184119.2	2184132,0	2184150.5	2184333.8	2184354.9	2184375,0	2184471.7	2184580,0	2184611.6	2184643.2	2134640.4	2184648,0	2184659.4	2184664,6	2154688,4	2184733.8	2184798.1	2184866,3	2154947.1	2184955.2	2185029.1	2185163.2	2145265.9	2185633,6	2185752,6	2185841.2	2185866.0	2185904.1	2186144.5	2186158.9	2186185.0	2186232.9	2186430,9	2186446.2
and a second sec	TM Zome 17	North (m)	4602169.6	4601939.8	4602110.9	4601994.0	4601849.1	4601898.8	4601898.2	4601658.6	4601877.9	4601874.9	4601644.4	4601771.6	4601775.2	4601755.5	4601735.8	4601414.4	4601570.1	4601675.5	4601412.6	4601542.2	4601525.6	4601525.2	4601628.5	4601569.8	4601655.3	4601676.9	4601700.5	4601394.4	4601567.6	4601510.7	4601449.0	4601357.1	4601474.6	4601481.3	4601546.6	4601271.2	4601254.6	4601281.7	4601282.7	4601293.1	4601221.1	4601215.5	4601170.5	4601139.9	4601254.0	4601365.6
	NADB3 U	East (m)	440013.2	440026.4	440044.5	440059.0	440106.5	440112.9	4401223	440200.5	440408.7	440475.0	440505.1	440529.3	440628.8	440632.3	440637.6	440587.9	440697.1	440705.0	440729.9	440765.2	440774.6	440784.2	440785.1	440785.4	4407913	440793.3	440801.0	440809.5	440832.1	440851.9	440875.4	4408763	440900.9	440941.9	440974.3	441081.6	441127.6	441145.0	441152.6	441164.4	441236.4	441240.7	441247.9	441261.9	441324.4	441330.9
	ographic	Longitude	\$1.7194864	81.7193049	81.7191049	-81.7189203	81.7183361	-81.7182643	-81.7181509	-81.7171889	81.7147141	81.7139193	-81.7135349	81,7132571	-81.7120650	\$1.7120203	-81.7119548	817113199	-81.7112257	81.7111407	41.7106161	-81.7104062	\$1.7102922	81,7101770	61.7101760	81.7303548	81.7101038	-81.7100824	41.7099927	-81.7098601	-81.7096064	\$1.7093632	\$1,7090747	81,7090549	81.7087721	-81.7082814	81,7078989	-81.7065854	81.7061521	-81.7058256	81.7057347	\$1.7055942	-81.7047237	-81.7046716	-81.7045812	1609101.18-	\$1.7036724	-81.7036052
A CONTRACTOR	NADE3 Ge	Latitude	41 5689559	41 5668873	41.5684296	41.5673780	41.5660761	41.5065241	41.5665197	41.5643673	41.5663584	41.5663363	41.5642624	41.5654100	41.5654492	41.5652723	41.5650996	42.5622040	41.5636074	41.5645572	41.5621913	41.5633610	41.5632394	41.5632090	41.5641429	41 5636117	41.5643818	41.5645763	41.5647895	41.5620329	41.5635947	41.5630841	41.5625297	41.5617026	41.5627621	41.5628261	41.5634166	41.5609433	41.5607966	41.5610431	41.5610523	41.5611467	41.5605036	41.5604539	41.5600491	41.5597743	41.5608965	41 5618126
		8	C140	C141	C143	C143	C144	C145	C14	C147	C148	C149	CISO	C151	C152	C1S3	CISA	C155	C156	CISI	C1S	C159	C160	C161	C162	C165	C164	C165	C164	C167	C168	C169	CIX	C173	C17.	C173	C174	C175	C170	C17	C178	C175	C180	C181	C182	C183	C184	C185

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CONTRAL SHOP	11 0007 WILD	Contro Control	Aloreth (UK, survey)	fact second and	Distance from	Longth	width	Height	Sonar Filename	Survey Line	Presidente	Associated Mag
pitude East (m)	North (m)	survey feet)	feed)	And American America	Proposed Route (m)	ŧ,	(m)	Î	(att)	(101)		Amorealy ID
856907 442817.7	4600473.9	2191375.6	688612.9	12.7	50.0	1.5	0,8	0.6	160830147500	027_1425	Point Source (Probable Boulder)	
355265 442831.5	4600492.8	2191420.0	688675.6	12.7	73.2	3.6	0.2	0.1	160828093800	025_0938	Unear Contact	
354549 442836.6	4600494.0	2191436,8	688679.9	12.7	76.8	2.4	0.5	0.1	160828093800	025_0938	Unear Contact	
85 0973 44 2868.0	4600536.7	2191534.6	683986.0		173.0	4.3	0.5	0.2	160827065700	023 0857	Unear Contact	
848326 442889.1	4600451.1	2191610.9	688575.0	12.6	73.8	26	0.5	0.1	160828093800	025_0938	Unear Contact	
946558 442903.5	4600416-6	2191660.6	688429.6	12.6	41.9	2.9	0.5	0.1	160826155400	028_1554	Unear Contact	
45677 442910.8	4600405.1	2191685.1	688392.3	12.5	35.4	4.5	0.5	0.2	160826155400	028_1554	Unear Contact	
45255 442914.5	4600478.3	2191693,3	683632.5	12.6	101.2	23	0,6	0.1	160826100600	024_1006	Unear Contact	
43472 442930.3	4600544.8	2191741.1	688852.0		166.9	2.5	0.5	0.1	160827085700	023 0857	Unear Contact	
43075 442933.1	4600485.9	2191753.8	688658.8	12.6	116.9	4.8	0.4		160827085700	023 0857	Unear Contact	
41379 442942.2	4600480.6	2191784.0	688641.8	12.6	116.7	23	0.3	0.0	160828093800	025 0938	Unear Contact	3
1118111 442971.7	4600135.6	2191900.4	687511.6		169.8	13.2	11.9	13	160827164200	033 1642	Croular Contact (Probable Dredge Spoll)	M102
37990 442973.9	4600284.0	2191899.2	687998.4	12.4	39.4	24	6'0	0.5	160631075800	029_0758	Point Source (Probable Boulder)	
964873 441919.6	4600766.3	2188412.1	689521.5	13.2		16.7			160827164200	013_1642	Circular Contact (Probable Credge Spoil)	4
635536 442955.3	4600395.7	2191962.9	688366.2	12.4	66.5	24	0.5	6.0	160828144200	026 1441	Unear Contact	3
834705 443002.6	4600443.9	2191984.2	683525.0	325	124.2	4.5	0.8	0.2	160828093800	025_0938	Unear Contact	
633425 443013.5	4600477.1	2192018.2	688634.5	125	148.5	2.8	0.4	0.1	160826100600	024_1006	Unear Contact	
833227 443015.4	4600503.6	2192022,8	688721.4		172.5	15	1.1	0.5	160827085700	023_0857	Point Source (Probable Boulder)	3
832299 443021.6	4600317.5	2192053,9	688111.3	12.4	13.2	6.0	0.2		160830142500	027_1425	Unsar Contact	1 1 1 1 1
\$3 2028 443 033 A	4600465.7	2192084,1	683598.2	12.4	147.3	3.0	0.5		160827085700	023 0857	Linear Contact	x
329157 443046.9	4600200.7	2192143.5	687729.4	12.2	76.3	5.6	5.3	0.5	160631075800	029_0758	Circular Contact (Probable Dredge Spoll)	M12
828723 443050.6	4600203.8	2192155.3	687739.7	12.2	71.8	4.6	5.1	0.5	160831075800	029_0758	Circular Contact (Probable Dredge Spolit)	
327315 443061.4	4600093.7	2192197.2	687378.9	12.5	162.6	14.5	15.8	1.0	160827164200	033_1642	Circular Contact (Probable Dredge Sport)	5
26490 443071.3	4600474.9	2192208,0	688630.5		174.8	1.8	0.9	0.5	160827085700	023_0857	Point Source (Probable Bouider)	
325446 443077.2	4600119.6	2192247.5	687464.8	12.4	132.3	17.1	14.3	11	160827164200	033 1642	Circular Contact (Probable Dredge Spoll)	M140
23615 443092.8	4600157.6	2192296.5	687590/6	123	91.5	15.9	14.6	0.8	150831111800	030_1117	Circular Contact (Probable Dredge Spoil)	M13
23186 443096.5	4600170.4	2192307.8	687632.6	12.4	78.6	14.0	13.7	0.8	160831111800	030_1117	Circular Contact Phobable Dredge Spolly	
22663 443101.9	4600307.2	2192317,9	688082.0	12.4	43.5	1.5	1.5	0.2	160826155400	028_1554	Circular Contact (Probable Tire)	с. 172
18880 443131.5	4600051.1	2192429.4	687243.3	(S	164.9	3.8	1.6	0.3	160827164200	033_1642	Unear Contact	30
18519 443136.2	4600273.0	2192432,4	687971.7	12.5	30.4	1.9	0.7	0.6	160826155400	028 1554	Point Source (Probable Boulder)	2
\$14695 443169.A	4600434.9	2192532,1	688504.7		187.8	8.5	0.7	0.0	160827085700	023_0857	Unear Contact	
812669 443183.1	4600033.7	2192599.9	687189.2	12.4	155.4	1.1	0,4	0.1	160827164200	033_1642	Unear Contact	M103
809926 443207.5	4600220.1	2192669,2	687802.0	12.5	19.0	1.4	0.7	0.8	160826155400	028 1554	Point Source (Probable Boulder)	*
805545 443244.0	4600222.2	2192789.0	687810.9	12.6	38.7	3.7	0,5	0.1	160826155400	028,1554	Unear Contact	1 14
799907 443291.0	4600314.5	2192938,0	688116.6	12.5	142,3	3.3	0.3	0.4	160826100600	024_1006	Unear Contact	-
798299 443302.5	4599970.4	2192995.1	686988,1	12.4	152.3	2.0	1.5	•	160627164200	033_1642	Rectangular Contact	÷
796207 443321.3	4600141.7	2193047.1	687551.3	12.4	63	1.6	0.7	0.8	160826155400	028_1554	Point Source (Probable Boulder)	
795035 443331.7	4600224.4	2193076.6	687823.3	12.4	83.5	3.2	0.3	0.1	160828144200	026 1441	Unear Contact	
794338 443338.0	4600280.8	2193093.9	683008.5	12.5	135.8	1.2	1.2	0.7	160826100600	024,1006	Point Source (Probable Boulder)	
787136 443397.0	4600155.3	2153294.9	687600.1	12.6	55.1	17	0.6	0.6	160828091800	025 0918	Point Source (Probable Boulder)	
782774 443433.8	4600207.7	2193412,7	687774.2	12.5	118.9	1.7	9'0	0.6	160828091800	025_0918	Point Source (Probable Boulder)	10 12
81159 443446.9	4600154.2	2193458.5	687599.4	12.6	78.6	12.2	0'0	0.2	160828144200	026_1441	Unear Contact	1
779915 443456.4	4600040.3	2193496.1	687226.3	12.4	16.1	4.1	0.7	0.6	160831075800	029_0758	Unear Contact	
779343 443462.1	4600167.2	2193507,8	687643.0	12.6	97.4	1.0	0.7	0.6	160626100600	024_1006	Point Source (Probable Boulder)	3
5776264 443488.4	4600243.8	2193589.7	687895.6	20 82	177.0	13	1.0	0.7	160827085700	023 0857	Point Source (Probable Bouider)	
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9	Latitude	Longitude	East (m)	North (m)	East (US survey feet)	North (US survey feet)	Bathymetry (m)	Distance from Proposed Route (m)	(III)	(m)	(II)	Sonar Filename (.xm)	Survey Line (_EDT)	Description	Associated Mag Anomaly ID
C278	41.5507812	\$1,6770972	443531.6	4600123.2	2193738.3	687502.6	125	93.0	3.3	0.2	0.1	160826100600	024_1006	Unear Contact	
C279	41.5510166	-81.6769191	443546.7	4600149.3	2.0875012	687588.9	12.6	123.0	7.4	0.2		160826100600	024_1006	Unear Contact	1
C280	41.5510285	-81.6768459	443552.8	4600150.5	2193806.2	687593.4	12.6	127.1	3.3	0.7	0.5	160826100600	024_1006	Unear Contact	
C281	41.5482126	-81.6766111	443560.9	4599837.8	2193880.2	684568.0	11.9	137.4	16.4	15.9	0.8	160827164200	033_1642	Circular Contact (Probable Dredge Spoli)	
C282	41.5484896	-81.6753590	443590.3	4599868.4	2193945.5	686669,6	11.8	98.9	13.0	15.1	0.4	160824151600	074_1516	Circular Contact (Probable Dredge Spoll)	1
C283	41.5484909	-81.6763290	443593.7	4599868.5	2193956,4	686670.1	12.5	107.0	19.6	17.3	1.5	160828091800	025_0918	Circular Contact (Probable Dredge Spoil)	
C284	41.5506066	-81.6763271	443596.7	4600103.4	2193949.7	687441.0	12.3	91.3	4.2	0.5	0.2	160830105600	032_1056	Unear Contact	Contraction of the second s
C285	41.5485524	-81.6762871	443597.2	4599875.3	2193967.7	686692.7	12.5	136.0	11.9	15.9	0.6	160827083700	023_0837	Circular Contact (Probable Dredge Spoll)	M14, M19
C286	41.5508125	-81.6760986	443614.9	4600126.1	2194011.5	687516.6	11.9	70.4	5.7	0.3		160824151600	074_1516	Unear Contact	
C287	41.5486795	-81.6760747	443615.1	4599889.2	2194025.4	686739.5	11.5	60.5	14.4	16.8	0.7	160824151600	074 1516	Circular Contact (Probable Dredge Spoli)	M165
C288	41.5487472	-81.6759931	443621.9	4599896.7	2194047.5	686764.4	11.6	43.6	17.3	18.4	1.3	160824151600	074_1516	Circular Contact (Probable Dredge Spolit)	M200
C289	41 5488684	-81.6758657	443632.6	4599910.1	2194081.9	686808.9	12.0	245,8	14.7	10.9	0.7	160824151600	074 1516	Circular Contact (Probable Dredge Spolit)	
C290	41.5463369	-81.6747615	443722.5	4599628.3	2194392.9	685889.4	12.4	155.2	0.9	0.7	0.7	160827083700	023_0837	Point Source (Probable Boulder)	4
C291	41.5504215	-81.6746781	443733.0	4600081.7	2194401.7	687377.8	11.9	236.3	4.4	0.3		160826170200	075_1702	Unear Contact	1
C292	41.5465075	81.6744406	443749.5	4599647.0	2194480.2	685952.4	12.1	229.3	13.3	1.1	0.4	160828152300	077_1735	Unear Contact	3
C293	41.5451014	81,6737736	443804.7	4599601.5	2194664.1	685806.1	12.4	132,8	1.3	0.8	0.5	160827083700	023_0837	Point Source (Probable Bouider)	
C294	41.5497804	81.6736843	443815.4	4600009-9	2194675.9	687146.8		544.0	1.0	0.8	0.6	160824151600	074_1516	Point Source (Probable Bouider)	
C295	41.5425973	-81.6735217	443822.7	45992123	2194745.2	684530.0	12.2	208.7	11	0.6	1.9	160828155601	079 1556	Point Source	,
C296	41.5462036	-41.6735082	443827.0	4599612.7	2194736.4	685844,0	12.0	224.6	1.8	1.3	0.9	160828170300	081_1703	Point Source (Probable Boulder)	4
C297	41.5456141	-81.6724721	443912.9	4599546.6	2195022.1	685631.9	12.0	226.7	35	0.9	0.2	160828170300	081 1703	Linear Contact	
C298	41.5455854	1-81.6724516	443914.5	4599543.4	2195027.8	685621.5	12.2	111.3	3.0	0.6	0.2	160627164200	033_1642	Unear Contact	3
C299	41.5466707	-81.6722098	443935.7	4599663.7	2195090.2	686017/6	12.2	10.8	3.4	0.3	0.4	160828161500	083_1615	Unear Contact	
C300	41.5478349	-81.6719941	443954.6	4599792.8	2195145.2	686442.4	12.2	125.5	13	0.8	0.6	160827083700	023 0837	Point Source (Probable Boulder)	े
C301	41 5490411	-81.6719892	443956.1	4599926.7	2195142,4	686881.9	12.2	59.0	2.9	1,0	0.5	160828161500	083_1615	Unear Contact	
C302	41.5469226	81.6715162	7.62254	4599691.2	2195279.2	686111.2	12.1	69.1	3.9	0.3	0.1	160828164800	084_1648	Unear Contact	
C303	41.5466584	81.6713224	4440263	4599661.6	2195387.9	686016.0	11.2	533.2	1.8	0'8	0.5	160828152300	076_1720	Point Source (Probable Boulder)	ar X
C304	41.5403643	-81.4710955	444023.1	4598962.8	2195417.1	683722.7	11.3	385.6	2.6	4.1	0.9	160828155601	079 1556	Point Source	
C305	41.5421899	81.6707211	444056.0	4599165.3	2195513.2	684388.9	12.1	32.3	3.5	1.9		160826155400	028_1554	Unear Contact	14
C306	42.5475275	-81.6707047	444061.9	4539757.9	2195499.2	686333.7	12.1	25.5	1.1	6/0	0.7	160826153400	028_1554	Point Source (Probable Bouider)	8
C307	41.5469167	-\$1.6706619	444065.0	4599690.0	2195513.1	686111.3	Star N	711.7	1.9	0.6	0.6	160826170200	075 1702	Point Source (Probable Boulder)	2
C308	41.5331604	-81.6702272	1,05059.4	4598162.5	2195679,7	681100.2	12.0	23.9	12.7	0.5	0.2	160826155400	028_1554	Unear Contact	100
C309	41.5467378	1-81.5701856	444104.5	4599669.9	2195644.0	686047.3	11.5	435.5	2.5	0.4	0.2	160828163100	080_1631	Unear Contact	3
C310	41.5408811	-81.6701475	444102.7	4599019.6	2195674.8	683913.5	11.7	184.0	2.7	2.0	0.7	160827164200	033 1542	Linear Contact	2
C311	41.5445263	-81.6700519	444113.8	4599424.2	2195688.3	685241.9	12.1	73.7	21.8	14.2		160830152500	030_1525	(Low Reflectivity Patch (Possible Slag)	4
C312	41.5461150	-81.6099685	444122.1	45/99600.6	2195705.6	685821.0	10.6	541.4	2.6	0,3		160828152300	077_1735	Unear Contact	
C313.	41.5380676	-81.6698780	444122.7	4598707.1	2195758.3	682889.1	12.0	85.1	5.0	3.2	•	160628150500	026_1505	Low Reflectivity Patch (Possible Slag)	÷
C314	41.5477103	-\$1,6698294	444135.1	4599777.6	2195738.2	686402.6	12.1	32.7	10.4	0.4	0.2	160826155400	028_1554	Unear Contact	
C315	41.5464878	1-61.6697967	444136.8	4599641.8	2195751.4	685957.2	12.1	33.1	4.5	0.7	0.1	160826155400	028 1554	Unear Contact	
C316	41.5464516	-81.6697280	444142.5	4599637.8	2195770,3	685944.2	10.3	569,0	3.1	0,3	0.1	150826172000	076_1720	Unear Contact	
C317	41 5368635	-81.6697192	444134.9	4598573.3	2195806.0	682450.8	9'0t	528.1	33.1	14.8		160828152300	078 1523	Low Reflectivity Patch (Possible Slag)	
C318	41.5380069	-81.6696852	444138.8	4598700.2	2195811.3	682867.5	10.0	654,7	3.0	1.6		160826170200	075_1702	Cricular Contact	M71
C319	41.5334407	+ -81.4695453	444146.5	4596195.2	2195865.4	681204.1	10.5	532.9	0.7	0.6	0.2	160828152300	075,1523	Circular Contact	
C320	41.5375060	9255699'18- U	444150.8	45986445	2195853,9	6826853	11.5	414,2	10.8	2.1		160828163100	080 1631	Unear Contact	-
C321	41.5405298	-81.6694702	444153.9	4598950.2	2195861.4	663767.3	11.5	1012	2.8	0.5	0.3	160625163100	1631 080	Unear Contact	M139
C322	41.5404999	9 -81,6694588	444159.8	4598976.8	2195864,6	683776.4	11.0	473.0	2.9	0.8	0.3	160828152300	078_1523	Unear Contact	
C323	41.5388177	-81.6693340	444168.7	4598790.0	2195904.6	683163.5	12.0	17.0	4.9	0.8	0.1	160830152500	030 1525	Unear Contact	

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		Description	Unear Contact	Circular Contact	Point Source (Probable Boulder)	Unear Contact	Unear Contact	Unear Contect	Point Source (Probable Boulder)	Unear Contact	Unear Contact	Point Source (Probable Boulder)	Point Source (Probable Bouider)	Unear Contact	Unear Contact	Unear Contact	Unear Contact	Point Source (Probable Bouider)	Point Source (Probable Bouider)	Unear Contact	Unear Contact	Point Source (Probable Boulder)	Point Source (Probable Boulder)	Unear Contact	Overlar Contact	Point Source (Probable Bouider)	Unear Contact	Unear Contact	Choular Contact	Chouler Contact	Rectangular Contact	Unear Contact	Rectangular Contact	Point Source (Probable Boulder)	Unear Contact	Point Source (Probable Boulder)	Unear Contact	Unear Contact	Point Source (Probable Boulder)	Unear Contact	Unear Contact	Choular Contact	Unear Contact					
		Urvey Line	075_1702_1	023 0837 (092_1501 7	024 0946	030_1525 1	023_0837_1	095 1450	033_1642	070 1609 1	082_1541_1	082_1541 1	064 1537 1	9_1630_ED	070 1609 1	025 0918 1	071 1627 1	2191 EBO	025 0918 1	030_1525 1	031 1321 0	033_1642_1	090 1622 0	094 1603 (027_1425	066 0905 1	069_1630	082 1541 (082,1541 (078_1523 1	071_1627	084_1648 7	095_1450	024_0946	092,1501	094 1509 1	070 1609 1	094_1509	092 1501 1	033_1702	064_1537_1	030 1525 0	069 1630	032, 1056	033 1702 1	025_0918_0	028 1614 1
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		Height S (m)			0.6		0.7		0.8		0.1	0.8	0.6		0.2		0.1	14	0.5	0.3	0.5	0.6	0.6			0.6	0.1	0.1		0.5	0.4		0.4	0.5	0.2	0.2	0.1		0.1		0.8				0.1	0.2		
		Width (m)	3,9	0.8	0.7	1.2	0.9	0.3	1.0	1,8	0.3	1.5	1.2	0.7	0.5	0.5	0.4	6.1	6.0	0.5	0.8	1.3	1.5	0.8	1.1	0,6	0.3	0.6	2.6	2.1	2.4	0.4	2.0	1.0	0.4	0.5	0,4	1.2	0.5	0.5	0.9	0.4	0.5	2,8	0.3	0.7	2,4	0.9
cts		(m)	11.9	1.0	1.1	7.6	3.3	9.7	15	5.6	3.2	9'E	1.6	5.8	12.9	7.1	3.1	17	15	5.8	3,5	2.2	2.0	6.9	4.6	14	4.6	3.9	3.2	2.7	3.1	6.9	2.0	1.7	2.2	3.2	3.8	10/6	2.6	9.1	17	3.8	6.1	10.7	6.0	11.5	3,4	2.8
Sidescan Sonar Conta		Distance from Proposed Route (m)	634.5	0.661	308.6	129.0	16.3	127.1	137.4	100.7	541.8	344.3	362,8	432.5	341.3	477.9	83.7	488,4	334.9	116.9	72.8	80.3	110.0	280.8	234.2	54.7	340.6	282.2	349.3	343.8	348,1	330.5	303.6	153.5	108.4	182.5	181.2	307.6	174.1	152.6	100.9	1713	70.2	223.6	69.7	87.5	85.5	46.5
		Bathymetry (m)	90 0	12.0	11.5	11.9	12.0	11.9	11.9	12.3	66	11.4	11.1	10.0	11.2	5.0	119	5.6	11.1	11.9	11.5	115	22.4	1.11	11.3	11.6	10.0	10.3	10.1	10.1	10.1	10.1	10.0	11.3	11.5	11.1	11.1	10.1	11.0	11.0	11.3	10.4	21.4	10.0	11.4	11.3	31.5	113
	tate Plane North	North (US survey feet)	685882.7	681283.9	686504.7	684214.2	686435.1	685747.2	686422.4	686568.0	681528.7	683520.5	683286.0	682464.8	683384,8	631865.9	685903.4	681538.9	683189.8	685938.9	684874.2	684828.2	684633.1	683258.4	683615.6	685360.7	682302.3	682766/6	681996.1	681978.3	682039.9	681948.5	682139.8	683762.1	685371.6	683390.8	683377.9	681978.7	683354.4	683413.6	683811.9	683017.6	684084.8	682391.1	6840453	683837.9	684953.2	684680.3
	NAD83 Ohio SI	East (US survey fact)	2195884.7	2195930.5	2195880.6	2195968.4	2195982.8	2195992.9	2195993.9	2193580.2	2156200.9	2196232.5	2196245.2	2196272,5	2196287.4	2196311,3	2196287.0	2196381.9	2196373.0	2196397.5	2196435.7	2196440,6	2196468.3	2196537.4	2196581.5	2196587.9	2196642.9	2196693.1	2196712.9	2196722.9	2196717.7	2196793.1	2196823.9	2196812.6	2196802.8	2196833.4	2196842.1	2196862.3	2196874.5	2196929.3	2196977.6	2196994.1	2196994,8	2197017.0	2197009.5	2197015.7	2197032.1	2197081.9
	TM Zone 17	North (m)	4599618.4	4598217.2	4599807.9	4599109.7	4599786.2	4599576.6	45997823	4599837.8	4598290.3	4598896.9	4598825.5	4598575.1	4598855.3	4598392.5	4599622.6	4598292.5	4598795.5	4599632.9	4599308.3	4599294.2	4599234.7	45988155	4598924.1	4599455.7	4598523.7	4598664.8	4598430.0	45984245	4538443.3	4598415.1	4598473.2	4598967.5	4539457.9	4598854.3	4598850.3	4598423.9	4598843.0	4598860.7	4598981.8	4598739.7	4599064.9	4598548.7	4599052.8	4598989.5	4599329.2	4599245.8
	NAD83 U	East (m)	444177.0	444166.7	444179.1	4441593.7	444209.8	444209.2	1.612244	443569.9	444250.4	444270.5	444273.2	444277.2	444286.5	444285.6	444299.7	444305.6	444311.6	444333.5	444339.5	444340.8	444348.2	444362.0	4443773	444388.5	444389.1	444406.9	444408.9	444411.8	444410.5	444433.0	A.654546	44448.5	446454.0	444452.9	444455.5	4444543	444455.2	444482.2	464499.1	444499.9	444505.7	444503.5	444530.0	444510.8	444521.7	444535.4
	ographic	Longitude	\$1,6693122	81.6693049	81,6693047	81.6690645	81.6689345	81.6689218	81.6688946	81.6766111	\$1.6683087	81.6681239	\$1.6680857	81.6680146	81.6679282	\$1,6678937	81.6678419	81,6676473	81.6676224	81.6674368	\$1.6673347	81.6673183	\$1.6672239	\$1,6670194	81.6668459	81.6667617	81.6666675	81.6664678	81.6064224	\$1.6663366	81.6664035	\$1.6661312	81,6660122	81.5659966	\$1.6659764	\$1,6659338	81.6659024	\$1.6658774	81,6657848	81.6655826	81.6653921	\$1.6653599	\$1,5653200	814652979	81.6652677	81.6652522	\$1,6651532	81.6649808
	NADE3 Ge	Latitude	41.5462797	41 5336581	41.5479867	41.5416987	41.5477931	41.5459050	41.5477580	41.5482126	41.5343228	41.5397880	41.5391443	41.5368898	41.5394141	41.5352453	41.5463260	42.5343450	41.5388769	41.5464206	41.5434978	41.5433712	41.5428351	41.5390607	41.5400395	41 5448288	41.5364343	41.5377070	41.5355920	41.5355430	41.5357122	41.5354592	41.5359835	41.5404358	41.5448531	41.5394163	41.5393506	41.5355404	41.5393153	41.5394764	41 5405681	41.5383879	41.5413167	41.5366680	41.5412080	41.5406385	41.5436988	41.5429487
		9	C324	C325	C326	C327	C328	C329	C330	C331	C332	C333	C334	C336	C337	C338	C339	C340	C341	C342	C343	C344	C345	C346	C347	C348	C349	C350	CISI	C352	C353	C354	C355	C356	C3S7	C358	C359	C360.	C362	C363	C364	C365	C366	C367	C368	C369	C370	C371

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graphic NA	NN	D83 U	TM Zore 17	NAD83 Ohio St	tate Plane North					10000		12		12 2 202
Longitude East	Till State	Ē	North (m)	East (US survey feet)	North (US survey feet)	Bathymetry (m)	Distance from Proposed Route (m)	(m)	11 Milet	Height (m)	Sonar Filename (.xtf)	Survey Lin (_EDT)	Description	Associated Mag Amorsaly ID
1,6604032 4449	4445	14.0	4598818.5	2198348,4	683299.5	10.5	247.7	3.4	1,8	0.6	160825154400	069_1545	Rectangular Contact	M106
11.6604102 444	444	1.510	4598779.8	2198347.7	683172.6	10.5	235.5	2.6	1.3	0.7	160826162700	071,1623	Point Source (Probable Bouider)	
11,5603481 444	440	918.1	4598753.2	2198365.5	683085.5	10.5	232,4	1.7	0.7	0.5	160826162700	071_1625	Point Source (Probable Boulder)	4
11.6602389 444	444	923.2	4598774.6	2198381.1	683155.9	10.7	243.6	4.0	2.2	0.7	160828091800	025 0918	Point Source (Probable Boulder)	
11.6602872 444	444	923.4	4598784.3	2198381,2	683187.9	10.5	246,5	1.9	2.2	0.8	160828091800	025_0918	Point Source (Proteble Boulder)	
1.6003601 44	4	4934.9	4598911.7	2198412.0	683606.5	10.4	295.1	6.0	0.7	0.2	160827063700	023_0835	Unear Contact	
1,6601584 44	44	4934.0	4598770.2	2198416.9	6831423	10.6	252.7	23	1.1	0.8	150826162700	071 162	Point Source (Probable Boulder)	
1.6601135 44	44	4937.9	4598793.6	2198425.4	683219.2	10.5	263.3	1.9	1,0	1.0	160828091800	025_0918	Point Source (Probable Boulder)	
1.6600747 44	4	4942.8	4599001.2	2158432.5	683900.7	10.5	3,28,9	2.1	1.7	0.6	160826090700	066 0900	Circular Contact	N2M M2S
11.660065/3 44	4	14941.9	4598796.4	2198441,4	683228.5	10.5	267.9	1.6	1.0	0.9	160828091800	025_0916	Point Source (Probable Boulder)	
11,6599435 4	4	44952.7	4598874.9	2198472,4	683486.8	10.5	301.3	2.2	2,0	0.6	160827083700	023_0831	Rectangular Contact	3
11.6599406	14	44952.4	4598501.7	2198475,5	683246.6	10.6	279.5	2.9	1.2	0.4	160826162700	071 1627	Point Source (Probable Boulder)	
1.6599005 4	4	44955.8	4598808.6	2198486.3	683269.3	10.5	284.8	3.8	1.2	0.7	160828091800	025_0918	Unear Contact	4
7 8265659 TL	1	8.1993.6	4598825.1	2198570,0	683325.0	10.4	334,3	2.2	2.3	0.7	160827083700	023_083	Point Source (Probable Bouilder)	M62
4 6794639.10	4	44992.3	4598860.1	2198603.1	683440.4	10.6	334,6	2.1	1.6		160828091800	025_0918	Rectangular Contact	N36
11.6591813	~	11210217.7	4599053.1	2198675,4	684075.3	0.0	415.7	2.2	5/5	1.2	160826090700	066_0905	Point Source (Probable Bouider)	1.000
1.6591395 4	4	45019.6	4598842.4	2198693.5	683384.0	10.6	355.6	2.2	1.0	1.3	160827083700	023 083	Point Source (Probable Bouider)	
11.6590536		\$45026.8	4598849.0	2198716.8	683406.1	10.6	364.5	23	2.4	0.7	160827083700	023 0830	Point Source (Probable Boulder)	3
11.6590459		445027.5	4598853.8	2198718.5	683421.9	10.6	366.5	2.7	1.0	0.9	160827083700	023 0831	Point Source (Probable Boulder)	4
11.6590282		445029.2	4598891.6	2198722.5	683545.8	10.7	379.3	3.2	2.3	0.5	160828091800	025 0918	Rectangular Contact	*
11.6590259		445029.1	4596851.6	2198724.3	683414.7	10.6	367.5	2.2	0/3	0.6	160827083700	023_083	Point Source (Probable Boulder)	
11,6589939		445031.8	4598856.3	2198733.0	683430.3	10.6	371.4	2.7	1.2	1.2	160827083700	023 083	Point Source (Probable Boulder)	
620065910	-	1450313	4596892.9	2158729.3	683550.4	100	363.2	2.9	2.4	1	160827083700	023 083)	Rectangular Contact	2 2 2
11.6589084		445039.0	4598868.3	2198756,0	683470.0	10.7	381.8	1.3	0.5	1.0	160826162700	071_1620	Point Source (Probable Bouider)	
11.6587317	-	445053.6	4598848.5	2198805.0	683406.0	10.7	390.0	15	1.4	0.7	160828091800	025 0918	Point Source (Probable Boulder)	
11.6586279		445052.7	4598898.0	2198831,6	683568.8	10	413.2	35	1.8	0.6	150827083700	023_0833	Rectangular Contact	X
11.6586050		445064.3	4598859.7	2196839.3	683443.4		403.5	23	0.8	0.6	160827063700	023 0837	Point Source (Probable Boulder)	
11.6585672		445067.5	4598876.2	2198849.1	683497.6	-	411.4	1.4	1.0	0.5	160827083700	023_083	Point Source (Probable Boulder)	-
11.6534060		445081.1	4598895.1	2198892.7	683560.3	100 A	430.0	1.6	0,8	1.0	160827083700	023_083	Point Source (Probable Bouider)	30
11.6583821		445083.1	4598890.8	2198899.3	683546.3	1	430.6	23	1.0	0.6	160827083700	023 083	Point Source (Probable Boulder)	
1.6582954	-	145090.5	4598913.3	2198922,4	683620.7	-	444.3	2.5	2.6	0.7	160826162700	071_1623	Point Source (Probable Bouider)	1
11.6582472 4	4	45094.4	4598898.9	2198936.0	683573.8		443.8	2,4	2.2	0.8	160827083700	023 083	Point Source (Probable Boulder)	3
11.6582051 4	4	45098.0	4598908.6	2198947.2	683605.6	26	450.1	13	0.7	0.9	160826162700	071 1625	Point Source (Probable Boulder)	
11.6583874 4	4	45099.5	4598915.2	2198951.9	683627.5		453.5	2.1	1,0	1.0.	160826162700	071_162	Point Source (Probable Boulder)	2 2 2
11.6577455		445136.6	4598940.9	2199072.0	683713.9	*	496.5	2.1	1.7	0.9	160827083700	023 083	Point Source (Probable Boulder)	-
1.6575067 4	4	45156.5	4598943.7	2199137.3	683724.0		516.3	1.7	0.8	0.6	160627063700	023_083	Point Source (Probable Boulder)	
1.5572468 4	4	45178.2	4598943.0	2199208.4	683723.0	100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100	536.8	3.2	1.4		160827063700	023 0830	Cheular Contact	X

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5.2 Magnetometer Results

The magnetometer data was acquired using Hypack/Hysweep Survey Acquisition Software in MAG file format, while post-processing was performed by CSR using Hypack Magnetometer software. The data used for this archeological analysis was provided to VanZandt Engineering in the form of spreadsheets and post-processed and corrected magnetometer traces (See CSR Report Appendix A).

A total of 271 line km of magnetometer data were analyzed within the turbine and export cable APEs with a total of 178 magnetic anomalies identified and mapped. The anomaly location, type, magnitude, associated sidescan sonar contact, and survey line for each anomaly are listed in Table 2.

		100 million (100 m		100 million		Marine Magneti	ometer Anomali	5				Contraction of the second s	
	NAD83 G	eographic	NAD83 UT	M Zone 17	NAD83 Ohio S	tate Plane North	Rathomatro	Distance		Annellinde	Associated	Magnetometer	Garner Line
9	Latitude	Longitude	Easting (m)	Northing (m)	East (US survey feet)	North (US survey feet)	(m)	Proposed	Polarity	(int)	Sidescan Contact ID	Height Above Lakebed (m)	CEDTI
M1	41.5960349	-81.7914838	434038.0	4605228.5	2162296.1	703716.7	16.9	93.1	Monopole	6.99		27	031 1141
M2	41.5727049	-81.7348227	438738.1	4602596.6	2177868.5	695347,0	15,4	92.1	Dipole	63.9		3.2	031_1221
M3	41.5707487	-81.7299932	439138.9	4602376.0	2179196.2	694645.8	15.3	88.6	Monopole	43.4		2.8	031_1221
M4	41.5684997	-81.7245598	439589.8	4602122.5	2180690.2	693839.5	15.0	89.4	Monopole	78.5		2.8	031 1241
MS	41.5649288	-81.7160083	440299.5	4601720.1	2183041.8	692559.4	14.3	93.6	Dipole	37.0		1.8	031 1241
MG	41.5629714	-81.7112339	440695.8	4601499.5	2184354.8	691857.9	14.5	92.4	Dipole	23.3		4.4	031 1241
NI7	41.5621961	-81.7094409	440844.6	4601412.2	2184848.0	691579.9	14.4	95.8	Dipole	76.8		43	031 1241
M8	41.5568402	-81.6963557	441930.9	4600808.7	2188446.8	1.139689	13.2	91.4	Monopole	68.6		3.2	031 1301
6W	41.5567475	-81.6961940	441944.3	4600798.3	2183491.4	689627.8	13.2	919	Dipole	26.7		3.1	031 1301
M10	41.5540823	-81.6897585	442478.6	4600498.1	2190261.7	688673.0	12.8	94.6	Monopole	59.6		27	1061 160
M11	41.5522990	-81,6853676	442843.2	4600297.2	2191469.5	688034,4	12.5	7.16	Monopole	30.7		4.4	1061 160
M12	41.5513733	-81.6830568	443035.1	4600192.9	2192105.1	687703.0	12.4	88.9	Dipole	21.3	C252	4.2	031 1301
M13	41.5510943	-81.6824088	443088.9	4600161.5	2192283.4	687603.1	12.4	90.0	Dipole	52.6	C257	3.9	1011 1301
M14	41.5485383	-81.6762752	443598.2	4599873.7	2193971.0	686687.5	11.9	92.2	Monopole	187.5	C285	3.8	031 1321
MIS	41.5397510	-81.6714626	443992.0	4598895.0	2195318.7	683498.3	11.1	598.8	Monopole	10.8		5	061 1414
M18	41.5438464	-81.6725876	443901.7	4599350.4	2194996.6	684987,6	11.6	398.0	Monopole	15.6		m	058 1452
M19	41.5486196	-81.6762341	443601.7	4599882.7	2193982.0	686717.3	12.3	82.6	Dipole	107.7	C285	4.1	074_1516
M20	41.5404086	-81.6720712	443941.8	4598968.4	2195149.8	683736.3	11.3	594.9	Dipole	29.2		2.8	074 1516
1/24	41.5369037	-81.6676089	444311.0	4598576.4	2196383.5	682470.9	10.1	399.8	Monopole	26.3		4	064 1537
M25	41.5315404	-81.6747700	443709.0	4597985.6	2194441.6	680498.1	0.0	1091.5	Dipole	145.1		4.3	068 1551
M26	41.5407863	-81.6600479	444945.0	4599002.6	2196439.8	683905.4	10.5	331.4	Dipole	108.9	C426	1.9	065 1528
M27	41.5389450	-81.6635191	444653.9	4598800.4	2197496.0	683225,4	10,3	6.2	Monopole	32.5		2.2	065_1528
M28	41.5348691	-81.6682138	444258.8	4598350.9	2196225.0	681728.0	9.7	515.9	Monopole	1.42		3.6	069 1543
M29	41.5376216	-81.6634084	444662.0	4598653.4	2197531.0	682743.5	10.1	41.7	Dipole	27.6	C384	*	069 1543
M30	41.5394153	-81.6600664	444942.3	4598850.4	2198439.6	683405,8	10.4	284.1	Monopole	23.8		4.3	069_1543
M32	41.5410904	-81.6590152	445031.4	4599035.7	2198721.5	684018.9	0.0	423.7	Monopole	57.5		4,3	066 1555
M33	41.5408670	81.6593186	445005.9	4599011.1	2198639.2	683936.7	0.0	392.1	Dipole	136.6		4.3	066_1555
M34	41.5355832	-81.6663726	44413.0	4598429.0	2196726.6	681993.0	10.1	345.6	Monopole	22.3	C352	4.6	070 1609
M35	41.5362778	-81.6651042	444519.4	4598505.3	2197071.4	682249,4	10.0	221.5	Dipole	68.7		4.7	070 1609
M36	41.5395686	-81.6594086	444997.3	4598867.0	2198619.1	683463.4	10.6	341.6	Monopole	38.6	C432	5.2	070 1609
M40	41.5394539	-81.6602418	444927.7	4598854.8	2198391.4	683419,4	10.4	271.5	Monopole	42.6		2,3	024 0946
144I	41.5604476	-81.6996252	441661.5	4601211.4	2187540.0	690967.3	13.1	128.3	Monopole	15.0		3.5	024 1026
M42	41.5631635	81.7063681	441101.7	4601517.5	2185685.7	691940.0	14.2	121.7	Dipole	23.9		13	024 1026
69M	41.5660867	-81.7134617	440512.9	4601846.9	2183734.9	692987.5	14.3	121.3	Dipole	18.4	100	2.1	024 1026
M44	41.5676671	-81.7172859	440195.5	4602025.0	2182683.3	693554.0	14.9	121.6	Dipole	69.5		2.5	024 1046
M45	41.5682266	-81.7187086	440077.4	4602088.1	2182292.1	693754.3	14.9	118.9	Dipole	24.7		2.2	024 1046
M46	41.5690275	-81.7205561	439924.1	4602178.3	2181784.0	694041.6	14.9	122.7	Manopole	88.5		2.1	024 1046
M47	41.5713855	-81.7263001	439447.4	4602444.1	2180204.6	694836.8	15.3	121.6	Monopole	122.2		2	024 1046
M48	41.6028184	-81.8026381	433115.4	4605990.2	2159225.4	706163,8	17.2	1.5	Monopole	10.1		3.6	005 1408
M49	41.6008315	-81.8006887	433275.8	4605768.1	2159764.4	705444.1	17.1	1.9	Monopole	61.0	Ø	3.4	005 1408
M50	41.6007495	-81.8008125	433265.4	4605759.1	2159730.8	705413.9	17.1	15.6	Monopole	49.1	3	3.4	028 1434
INS1	41.6001685	-81.7991386	433404.3	4605693.3	2160190.3	705205.9	17.1	2.7	Monopole	17.0	12	2.9	028 1434
M52	41.5984615	-81.7950101	433746.6	4605500.6	2161324.5	704593.0	17.0	1.8	Monopole	30.2		EE	028 1434

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Table 2 Magnetic Anomalies Contact Table

Lochradier Offihors Wind Demenstration Project - 2016 Marine Geophysical Survey Results

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						Marine Magnetic	ometer Anomalie						
	NAD83 G	eographic	NAD83 UT	M Zone 17	NAD83 Ohio St	ate Plane North	Bushington a	Distance		Amelitanda	Associated	Magnetometer	Concert Line
9	Latitude	Longitude	Easting (m)	Northing (m)	East (US survey feet)	North (US survey feet)	(m)	Froposed	Polarity	(hrt)	Sidescan Contact ID	Height Above Lakebed (m)	(101)
M103	41.5500740	-81.6813081	443179.8	4600047.5	2192588.2	687234.1	12.5	345.0	Dipole	65.3	C263	3.4	033 1642
M106	41.5391328	-81.6603260	444920.4	4598819.2	2198369.5	683302.2	10.5	254,0	Manapole	17.8	C418	2.4	025_0918
M107	41.5540152	-81.6850092	442874.6	4600487,5	2191561.7	688660.6	12.6	89.7	Dipole	10.2		1.6	025 0938
M108	41.5676584	-81.7179539	440139.8	4602024.5	2182500.5	693549.1	14.9	93.9	Dipole	75.2		4,3	025_0958
M109	41.5691766	-81.7217620	439823.7	4602195.7	2181453.5	694093.0	15.0	33.5	monopole	85.5		1.8	025_0958
M111	41.5700593	-81.7239224	439644.4	4602295.2	2180859.5	694409.4	14.9	88.0	Dipole	20.9		1.9	025 0958
M112	41.5708789	-81.7259358	439477.3	4602387.6	2180306.0	694703.1	15.2	86.9	Dipole	20.4	C87	2.3	025 0958
M113	41.5710823	-81.7263759	439440.8	4602410.5	2180184.9	694776.1	15.3	89.0	Dipole	25.6	C82	2.3	025 0958
MI15	41.5739316	-81.7332821	438867.7	4602731.7	2178286.1	695797.6	15.6	89.2	Monopole	23.9		2.6	025 1018
M116	41.5744240	-81.7344668	438769.4	4602787.2	2177960.4	695974.2	15.6	89.5	Dipole	14,8		2,4	025 1018
M117	41.5872063	-81.7656452	436182.7	4604228.9	2169390.5	700558.3	15.7	83.0	Monopole	11.8		2.5	025 1038
M118	41.5960000	-81.7867306	434434.1	4605221.0	2163596.3	703714.5	16.9	93.9	Monopole	21.9		2.1	025 1058
M120	41.6024963	81,8010345	433248.7	4605953.2	2159665.0	706049.9	17.1	86.5	Monopole	20.2		2,4	002 1121
M121	41.6053231	-81,8038296	433018.7	4606269.2	2158892.3	707073.8	173	89.9	Monopole	22.3		2.7	002 1121
M122	41.5736267	-81.7333638	438860.6	4602697.9	2178264.7	695686.3	15.5	56.2	Monopole	74.9		4,9	026 1401
M123	41.5669524	-81.7170705	440212.8	4601945.5	2182744.5	693294,1	14.9	60.7	Dipole	26.2		4.3	026 1421
M124	41.5657431	-81.7141164	440458.0	4601809.2	2183556.9	692860.7	14.3	61.6	Monopole	38.1		3.7	026 1421
M127	41.5364138	-81.6669817	444362.9	4598521.6	2196556.9	682294.1	10.0	366.3	Monopole	20.1		3,9	082 1541
M128	41.5354060	-81.6674209	444325.4	4598410.0	2196440.2	681925.7	9.8	434.9	Dipole	35.6		2.9	079 1556
M129	41.5360893	-81.6679494	444281.9	4598486.2	2196293.2	682173.3	9,9	454.1	Monopole	37.5		3.2	079 1556
M131	41.5373226	81.6685387	444233.8	4598623.5	2196127.5	682621.1	10.3	459.8	monopole	39.7		3.2	079 1556
M133	41.5400208	-81.6699860	444115.4	4598924.0	2195722,0	683600.5	11.4	482,6	Monopole	21.6		4.8	079 1556
M134	41.5408592	-81.6687921	444215.7	4599016.3	2196045.9	683909.0	11.5	347.0	Manopole	31.6		4.6	083 1615
M135	41.5374646	-81.6670369	444359.2	4598638.3	2196538.2	682676.8	10.2	335,5	Manapole	21.6		3.1	083 1615
M138	41.5389967	-81.6686015	444230.0	4598809.4	2196104.5	683230.9	11.0	408.8	Monopole	20.2		4,1	081_1703
M139	41.5405997	-81.6694249	444162.7	4598987.9	2195873.6	683812.8	211.5	406.4	Dipole	5.8	C321	4.6	081 1703
M140	41.5508761	-81.6824508	443085.2	4600137,3	2192272.7	687523.4	12.5	112.9	Monopole	15.3	C256	2.3	032 1056
M141	41.5512989	-81.6836088	442989.0	4600185.0	2191954.3	687674.5	12.4	118.3	Monopole	14.3		2.3	032_1056
M142	41.5524452	-81.6863740	442759.4	4600314.1	2191193.5	688085.1	12.6	117.9	Dipole	72.3		2.5	032 1116
M143	41.5565323	-81.6963428	441931.7	4600774,5	2188451.4	689549.0	13.2	120.8	Monopole	17.2	C197	3.1	032 1116
M144	41.5620845	-81.7098618	440809.4	4601400.1	2184733.2	691538.2	14.4	123.5	Monopole	10.6	C167	4,5	032 1116
M147	41.5653679	81.7178134	440149.4	4601770.1	2182546.4	692714.9	14.8	123,3	Dipole	128.2		4,8	032 1136
M148	41.5725375	-81.7352346	438703.6	4602578.3	2177756.3	695285.0	15.4	124.9	Dipole	256.8		5.4	032 1136
0149	41.5990424	-81.7993035	433389.4	4605568.4	2160148.5	204795.2	17.1	113.6	Monopole	19.0		3,9	032 1236
MISO	41.5999644	-81.8015504	433203.1	4605672.5	2159531.2	705126.2	17.1	118.5	Monopole.	30.2		3,4	032_1236
M151	41.6010881	-81.8005671	433286.2	4605796.5	2159796,9	705537.8	17.1	23.4	Monopole	23.5		3.9	027 1247
M153	41.6006404	-81.7995452	433370.9	4605746.0	2360077.7	705377.0	17.1	32.3	Monopole	18.5		3,9	027_1247
MIS4	41.5735256	-81.7336781	438834.3	4602686.9	2178179.0	695648,7	15.5	33.7	Monopole	101.9		3.3	027 1345
MISS	41.5693697	-81.7237252	439660.2	4602218.5	2180915.7	694158.6	14.9	28.8	Monopole	13.7	C102	3.3	027 1345
M156	41.5686945	-81.7219413	439808.3	4602142.3	2181406.0	693916.9	14.9	34,7	Dipole	36.7	C121	3,1	027_1345
M157	41.5683751	-81.7213093	439860.7	4602106.4	2181580.0	693802.1	14.8	29.0	Monopole	11.5	C129	3.2	027 1345
M158	41.5675903	-81.7194811	440012.4	4602018.0	2182082.8	693520.6	14.8	26.0	Monopole	25.1	C138	3.2	027 1345
M159	41.5663746	-81.7165652	440254.4	4601881.0	2182884.7	693084.8	14.8	24.7	Dipole	1.95		3.2	027_1345

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	NAD83 G	eographic	TU EBOAN	M Zone 17	NAD83 Ohio St	tate Plane North	Rathumathu	Distance		Amediterada	Associated	Magnetometer	Connect I face
9	Latitude	Longitude	Easting (m)	Northing (m)	East (US survey feet)	North (US survey feet)	(m)	from Proposed	Polarity	(hT)	Sidescan Contact ID	Height Above Lakebed (m)	(LEDT)
1161	41.5653242	482,7139834	440468.7	4601762.6	2183594,6	692708.4	14.2	26.2	Dipole	28.0		2,6	027 1405
t163	41.5652091	-81.7135192	440507.3	4601749.5	2183722.0	692667.6	14.2	33.6	Dipole	91.4		2.6	027_1405
1164	41.5396470	81.6654948	444489.7	4598879.6	2196952.7	683476.0	11.0	139,9	Dipole	8.9	C363	5.6	094 1509
165	41.5487229	-81.6761189	443611.4	4599894.1	2194013.1	686755.2	12.3	67.9	Dipole	108.8	C287	6,8	030_1525
1166	41.5382546	-81.6654769	44490.0	4598725.0	2196962.5	682968.7	10.4	185.0	Dipole	25.8	C365	4.9	091 1609
1167	41.5384707	-81.6661133	444437.1	4598749.4	2196787,5	683045.8	10.6	228,4	Dipole	144.4		5.1	090 1622
4169	41.5526855	-81.6847601	442894.2	4600339.7	2191634.4	688176.8	12.5	29.7	Monopole	0.11		43	029 0758
0/11	41.5529418	-81.6852665	442852-2	4600368.5	2191495.0	638268.9	12.6	25.1	Dipole	26.6		1	029 0758
17.15	41.5569863	-81.6951401	442032.4	4600824.1	2188779.0	689717.4	13.1	28.3	Monopole	52.0		1.5	8270 620
1172	41.5572905	-81.6960727	441954.9	4600858.5	2188522.8	689825.9	13.2	36.2	Monopole	21.4		1.6	029 0758
E7.1A	41.5573735	-81.6962019	441944.2	4600867,8	2188487,1	689855.8	E.E.I	33.3	Monopole	7.4		1.9	029 0758
41.74	41.5572903	-81.6959600	441964.3	4600858.4	2188553.6	689826.1	13.2	31.7	Dipole	75.1		1,4	029 0818
175	41.5573982	-81.6961362	441949.7	4600870.5	2188505.0	689865.0	13.2	28.3	Monopole	12.3		1.6	029 0818
1176	41.5582030	-81.6981451	441782.9	4600961.2	2187952.5	690153.2	13.5	30.7	Monopole.	17.5		2,4	029 0818
1111	41.5647373	-81.7140549	440462.2	4601697.5	2183577.0	692494.4	14.2	33,8	Dipole	58.7		3.2	029 0818
6/11	41.5718504	81.7312471	439035.4	4602499.2	2178849.6	695044.2	15.2	31.7	Dipole	32,0	C50	2	029 0838
1181	41.5758412	-81.7415576	438179.6	4602949.6	2175015,8	696473.6	15.7	57.1	Monopole	9.3		1.1	029 0856
1182	41.5920046	-81.7800926	434983.3	4604772.4	2165423.9	702273.7	16.8	29.0	Monopole	11.3		3.1	029 0916
1184	41.6004022	-81.8011538	433236.6	4605720.8	2159638.4	705286.6	17.1	61.6	Monopole	15,8		5,5	030 0957
185	41.5992251	-81.7985377	433453.4	4605588.1	2160357.4	704863.5	17.0	65.1	Monopole	19.8		5.4	030_0957
1186	41.5772457	81.7451496	437881.5	4603108.1	2175028.6	696976.8	15.6	64.5	Monopole	1.11		4	030 1037
1187	41.5729492	-81.7345112	438764.3	4602623.5	2177952.9	695436.7	15.4	55.8	Monopole	11.6		3.8	030_1037
1188	41.5716811	-81.7313903	439023.3	4602480.5	2178810.9	694982.2	15.2	53.9	Dipole	9.7	(10)	3.6	030 1037
1189	41.5703497	41.7282867	439280.8	4602330.5	2179664,4	694504.6	15.2	59.0	Dipole	11.2		3.6	030 1037
0611	41.5685808	81.7239886	439637.5	4602131.1	2180846.2	693870.5	15.0	58.6	Monopole	8.7		3.4	030 1037
191	41.5679971	-81.7225513	439756.8	4602065.3	2181241.4	693661.3	14.9	57.7	Dipole	9.5	1	3.3	030 1037
192	41.5668192	-81.7197856	439986.3	4601932.6	2182002.0	693238.9	14.6	61.3	Dipole	24.8	C137	3	030 1037
193	41.5594978	-81.7020637	441457.3	4601107.6	2186875.8	690615.1	13.3	62.1	Dipole	20.6		4.2	030_1057
194	41.5594349	-81.7018892	441471.8	4601100.5	2186923.8	690592.6	13.3	61.2	Monopole	13.9		4.2	030 1057
195	41.5579714	-81.6983177	441768.3	4600935.6	2187906.1	690068.4	13.5	60.1	Monopole	8.2		4.4	030 1057
1196	41.5571836	-81.6964709	441921.6	4600846.9	2188414.1	689786.0	13.3	62.6	Monopole	6.7		4.2	030 1057
197	41.5566534	-81.6950753	442037.5	4600787.1	2188797.9	689596.3	13.1	58.1	Monopole	16.8		4	030 1057
1198	41.5526142	-81.6852246	442855.4	4600332.1	2191507.6	688149.6	12.5	55.3	Dipole	50.7		6.1	030 1117
6611	41.5506155	-81.6805272	443245.4	4600107.1	2192800.1	687433.4	12.5	61.0	Dipole	85.2		6.1	030_1117
1200	41.5487343	-81.6760171	443619.9	4599895.3	2194041.0	686759.6	11.9	62.7	Dipole	163.8	C288	5.5	030 1117
1201	41.5516852	-81.6790551	443369.1	4600224.9	2193199.3	687827.0	12.4	102.2	Dipole	27.6		5,8	056 1138
1202	41.5518646	-81.6788879	443383.2	4600244.7	2193244.5	687892.8	12.4	126.4	Monopole	6'2		5.3	056_1138
1203	41.5599115	-81.7003941	441596.9	4601152.4	2187331.3	690770.0	13.1	45.2	Monopole	8.4		2.5	052 0822
A204	41.5604475	-81.7068566	441058.5	4601216.3	2185561.0	690949.2	14.1	162.2	Monopole	4.8		3.3	051 0830
A205	41.5654662	-81.7100979	440792.8	4601775.7	2184657,4	692769,8	0.0	196,0	Dipole	61.2		4.5	050_0839
A206	41.5649531	-81.7103442	440771.8	4601718.9	2184591.7	692582.2	14.5	136.2	Dipole	20.4		3.7	050.0839
1208	41.5663045	-81.7162442	440281.1	4601873.0	2182972.8	693060.0	14.7	30.8	Monopole	68.6		4.1	049 0847
607	41.5700883	-81.7203077	439945.8	4602295.9	2181848.5	694428.7	0'0	235.9	Monopole	1.17		4.5	048_0856

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Lochroker Offshore Wed Demonstration Project - 2016 Marine Geophysical Survey Results

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	NAD83 G	eographic	INAD83 UT	M Zone 17	NAD83 Ohio St	tate Plane North	Red Landson	Distance		American	Associated	Magnetometer	County I has
9	Latitude	Longitude	Easting (m)	Northing (m)	East (US survey feet)	North (US survey feet)	(m)	Proposed	Polarity	(nT)	Sidescan Contact ID	Height Above Lakebed (m)	(LEDT)
M211	41.5683874	81.7216561	439831.8	4602108.0	2181485.1	693805.7	14.8	16.2	Monopole	22.7	C125	1.2	048 0856
M214	41.5711257	-81.7263560	439442.5	4602415.3	2180190.2	694792.0	15.3	94.1	Manopole	14.1	C82	3.7	047 0911
M215	41.5713403	-81.7261749	439457.8	4602439.0	2180239.0	694870.6	15.3	122.2	Monopole	61.7	C85	3.7	047 0911
M216	41.5715103	-81.7260724	439466.5	4602457.8	2180266.5	694932.8	15.3	342.9	Monopole	14.0	C86	3.7	047 0911
M217	41.6001150	-81.8016471	433195.2	4605689.3	2159504.4	705180.9	17.1	113.6	Monopole	32.9		3.9	022 1108
M218	41.6028241	81.8045222	432958.4	4605992.3	2158710.1	706161.7	17.2	123.4	Dipole	7.67		6.6	021 1118

While some of the magnetic anomalies were correlated to known sidescan contacts (targets), the remaining magnetic anomalies were not correlated to a sidescan contact or a known lakebed installation such as a pipe or cable. In one instance, a number of anomalies mapped on adjacent survey lines may indicate the presence of a linear ferrous feature perpendicular to the proposed route at EKP 6.3 (Figure 6). This feature could not be identified from the sidescan or sub-bottom profiler data acquired over this area. Further analysis of the magnetic data shows that the feature is most likely a buried steel or iron buoy block or anchor at the southwest contact with associated cable running to the northeast. Detailed analysis of all magnetometer data are discussed below.



Figure 6 Location of linearly-aligned magnetic anomalies between EKP 6 and EKP 6.5. (CSR)

Prior magnetic surveys in this area of the lake have also indicated no correlation between the magnetic data and sidescan sonar imagery, with most of the magnetic hits having very small pole-to-pole distances indicating small or thin objects (Alpine, 2010)(VanZandt, 2015). This is primarily due to the proximity of the area being close to shore and used as a dumping ground for the past 200 years. Even today, there are 5 dumping grounds identified on the latest Moss Point to Vermilion NOAA chart 14826 (Figure 7).



Figure 7 Current Dump Sites in Survey Areas (NOAA, VanZandt Engineering)

It is possible that while some of the more magnetically intense anomalies are manmade, they are disarticulated with no archaeological context, therefore, they do not represent potentially significant historical resources. The less magnetically intense objects are most likely a function of geology, perhaps representing small pockets of glacial till or other magnetic rocks/sediment near the surface. In both cases, the Sidescan sonar imagery did not show any objects that would correlate with these anomalies. The lack of correlation is likely due to the magnetic objects being masked by overlying sediment. A full discussion of the magnetic contacts follows below.

5.3 Sub-bottom Data Analysis

The sub-bottom data was acquired using Klein SonarPro Acquisition Software in SEG-Y file format, with the post-processing by CSR using Coda Survey software. The data used for analysis was provided to VanZandt Engineering as scaled images on an as requested basis. A total of 271 line km of magnetometer data were analyzed within the turbine and export cable APEs.

The presence of gas charged sediments within the Icebreaker survey area was interpreted from chirp sub-bottom profiler and boomer seismic data. These gas charged sediments can accentuate sub-bottom reflectors causing "bright spots" as well as prevent the penetration of the acoustic energy from the profiling system, thereby masking the acoustic signal.

The origin of the near surface gas in the survey area cannot be determined from the data collected in this survey. This gas may originate from shallow decomposed organic material (biogenic) or from deep underlying bedrock formations (petrogenic). In this area, the biogenic source is plausible since vegetation has been buried during the numerous lake transgressions. This burial and subsequent decomposition could account for the presence of sub-surface gas.

Small localized erosional depressions or channels have been identified near the proposed WTG ICE1 turbine location (Figure 8) and over the near shore survey area. These features are infilled and were likely formed by glacial fluvial processes.



Figure 8 ICE 1 Erosional Depression or Channel (CSR)

Further detailed analysis of the sub-bottom data interpretation is provided below.

5.4 Multibeam Bathymetry

The multibeam bathymetry data was acquired using Hypack Acquisition Software in XTF file format with post-processing by CSR using Caris & Hypack software, and gridded using Surfer software. The data used for analysis was provided to VanZandt Engineering as scaled images on an as requested basis.

A total of 271 line km of magnetometer data were analyzed within the turbine and export cable APEs.

Further detailed analysis of the multibeam data interpretation is provided below.

5.5 Integrated Detailed Contact Analysis

Detailed contact analysis of the remote sensing data requires an integrated analysis when possible. There were four remote sensing data sets provided for analysis: side scan sonar, magnetometer, sub-bottom profiler, and multibeam bathymetry. Of these four data sets only two were suitable for contact analysis, side scan sonar and magnetometer. Sub-bottom profiling and multibeam bathymetry do not possess adequate spatial resolution to allow for any detailed image interpretation. These limitations will be discussed in the following analysis of selected contact sets.

The contacts were broken down into four sets for analyses: Groupings, Side scan only, Side scan with associated magnetometer anomalies, and Magnetometer anomalies only. Groupings were selected as the first set for analysis because it readily shows the limitations of some remote sensing systems.

5.5.1 Groupings

One contact grouping was analyzed to show the limitations of the use of sub-bottom profiler and multibeam bathymetry systems for the detection of small objects. The contact grouping consisted of contacts: C99, C102, C104, C105, C106, C107, C109, and M155 (Figure 9 and Figure 10).



Figure 9 Contact Grouping 1 (CSR)



Figure 10 Contact Grouping 1 (CSR)

The following are the detailed side scans of those contacts:



Figure 11 Contact C99 (CSR)



Figure 12 Contact C102 (CSR)



Figure 13 Contact C104


Figure 14 Contact C105 (CSR)



Figure 15 Contact C106 (CSR)



Figure 16 Contact C107 (CSR)



Figure 17 Contact C109 (CSR)

The side scan sonar image in Figure 18 shows the relationship of these contacts with each other over a 100 meter wide swath. It is clear that these contacts are very discernible and have good resolution. Note that the Klein 3000 side scan sonar system operating at 500 kHz has a resolution on the order of 10-20 cm.



Figure 18 Group 1 Contacts in Context (VanZandt Engineering) 36

Multibeam bathymetric remote sensing systems were designed to gather bathymetric (depth) data, not image the sea floor. The ODOM Model ES3 multibeam sonar system has quoted resolution of 0.02% of range with a range of 60 meters, but that resolution is only for bathymetric purposes in the Z-axis (depth). The spatial resolution of the system (X and Y-axis) is on the order of 5 - 10 meters, which will not image small contacts on the order of a meter or less. An example of this lack of special resolution is seen from EDOM's early sales literature (Figure 19)



Figure 19 Lack of Multibeam Sonar Resolution (ODOM)

As demonstrated by the above example, the side scan sonar image of the sailboat with mast still standing on the right is clearly recognizable, whereas the image on the left has no spatial resolution other than a change in bottom elevation. The multibeam image in no way resembles a sailboat, a recognizable artifact, or indicates that the shape of the object was manmade. To further illustrate the point that multibeam data has insufficient resolution for image



identification,

Figure 20 and Figure 21 are the multibeam data collected around the Contact Grouping 1 area and contoured at 0.2 meter increments. It is readily apparent that these data lead to the

conclusion that the entire lake bottom in this area is smooth and there are absolutely no contacts to evaluate. This lack of spatial resolution is the reason that the multibeam bathymetric data gathered during the survey was not used for contact determination or contact evaluation.



Multibeam Data from Contact Grouping 1 (CSR)



Figure 21 Multibeam Data Contact Grouping 1 with no Contact Overlays (CSR)

A Klein 3000 chirp sub-bottom profiler (SBP) integrated with the Klein 3000 sidescan system was used to collect underground geological data in the turbine and export cable APEs. The resolution of the SBP is stated as 12.5 cm or better, but only for depth in the Z-axis. The spatial resolution for contact discrimination is on the order of meters. The beam angle of the SBP is 20° along track and 40° cross track @ 5 kHz. This equates to an area 2 meters by 4.4 meters when towed at a survey altitude of 6 meters off the bottom and the wide beam angles and low frequencies do not lend themselves to small contact imaging. The main purpose of the SBP in the survey is to determine the underlying geology for the purposes of construction, locating possible prehistoric features such as old river beds, large out croppings, hills and valleys, or possibly large artifacts. These normally show up as undiscernibly hyperbolic reflections, Figure 22 (Jackobsson)



Figure 22 Hyperbolic reflection mechanics (Jacobsson)

"Given the lack of angular resolution and the relatively broad beam width of an SBP, the shortest range to within the beam footprint will be recorded as if it was always directly below the vessel. The closest distance to the object that the sonar records in the form of an echo will change as the ship moves (Figure 22a). This distance will appear as a changing depth to the

object. A narrow object (narrow pit or peak) will appear to widen as the ship moves past it. The end result is a characteristic hyperbolic shape on the echogram, where the object is located in the center (Figure 22b)(Jakobsson)."

Again it is possible that artifacts may show up on SBP data, but they would not be identifiable or easily distinguished from geological features (Figure 23)(Papatheodorou). Again, this is why SBP data was not used to identify historic artifacts.



Figure 23 3.5 kHz sub-bottom seismic reflection profiles, showing subsurface targets which probably represent cultural debris from the Battle of Navarino. (Papatheodorou) SBP data for grouping 1 shows no discernible images or subbottom structure for any of the contacts associated with this grouping (Figure 24 and Figure 25).



Depth Below Lakebed (m)

Figure 24 Chirp profiler record illustrating the shallow sub-surface geology over sonar contacts along survey line 028_1514 (sonar file 160826151400). (CSR)



Depth Below Lakebed (m)

Figure 25 Chirp profiler record illustrating the shallow sub-surface geology over sonar contacts along survey line 027_1345 (sonar file 160830134500). (CSR)

The hyperbolic reflections imaged are on the meter size or less and probably represent individual boulders.

This lack of contact resolution is the reason that the SBP data gathered during the survey was not used for contact determination of contact evaluation.

5.5.2 Contact Grouping Analysis

The contact grouping of C99, C102, C104, C105, C106, C107, C109, and M155 in context with the lake bottom (Figure 18) resembles a dump site for construction trash. Contacts C104 - C107 are probably stone or cement refuse due to their appearance and lack of magnetic signature.

Contact C99 has no magnetic signature so it is probably of organic construction and most likely wood. It measures 9 meters x 4 meters with a calculated height off of the bottom of about 0.2 meters at its highest point with the majority of the structure at the level of the lake bottom. The image resembles wooden cribbing or a wooden dock. While it is possible that this could be a portion of an old shipwreck, such as blown off decking or hull structure, the lack of remnants of a centerboard structure, railings, frames, or anything cross tying this structure together make it highly unlikely.

Contact C102 measures 4 meters x 2.5 meters and its calculated height off of the bottom is 0.5 meters. There is a magnetic signature associated with this contact registering 13.7 nano teslas (nt) which equates to approximately 49 kilograms (kg). (Note: The relationship between nt and mass will be discussed in the magnetic contacts section.) The contact resembles a very thin curved piece of ferrous metal, manmade but unidentifiable.

The grouping in itself resembles a dump site and has several disarticulated manmade objects with no archaeological context or historical context such as a shipwreck.

5.5.3 Side Scan Only Contacts

The sidescan sonar contacts table was determined by the analysis of 271 line km of side scan sonar data by CSR. They tabulated the pertinent data for each contact along with a subjective description of the contacts identified (Table 1). They also provided detailed sidescan images with pertinent data for each individual contact in the attached CSR Survey Report APPENDIX IV, SIDESCAN SONAR CONTACT SONOGRAMS.

The 271 line km of side scan sonar data was then analyzed by VanZandt Engineering to verify CSR's interpretation of the data and their contact table. VanZandt Engineering concurs with the contacts identified from the raw data. They then evaluated the data and descriptions provided for the individual contacts. VanZandt Engineering concurs except for the following description change:

• The CSR term "slag" used to describe a contact with or without an associated magnetic anomaly is redefined to "non-magnetic mill tailings" for a contact that does not have an associated magnetic anomaly as slag is a ferrous material with a magnetic signature

Out of the 455 identified sonar contacts 420 of them were not associated with a magnetic anomaly. Out of those 420 contacts 11 were identified as possibly being manmade. Of the 409 non-manmade contacts a majority of these are linear contacts, low reflectivity patches, point sources, and circular sources. The 11 remaining contacts were rectangular contacts.

The linear contacts are mostly trees and anchor scour. The rivers feeding Lake Erie discharge quite a number of trees after a strong storm. Some of these trees have been culled (Figure 26) and sawn up in the Metro parks system by grounds keeping staff along the river banks, with some still intact (Figure 27). During a storm, and afterwards when the rivers rise, these trees, either uprooted or culled, are carried downstream and discharged into the lake.



Figure 26 Cut Log (CSR)



Figure 27 Tree with Roots (CSR)

Examples of low reflectivity patches, point sources, and circular sources which normally consist of tailings, dumpings and boulders are as follows:











Figure 30 Circular Source Contact (CSR)

The 11 manmade targets were unidentifiable but characterized by straight lines and angles. For example, contact C383 (Figure 31) has a distinct 90 degree angle and measures 2.5 meters x 5 meters and could possibly be some roofing debris that was dumped; or it could be something totally different. The contact has no magnetic anomaly associated with it nor does it have any elevation above the lake bed.



Figure 31 Manmade Contact C383 (CSR)

The analysis of the 420 sidescan sonar contacts without associated magnetic anomalies yielded no contacts of historical significance, although several manmade contacts were found, they are disarticulated with no archaeological context, thus do not represent potentially significant historical resources.

5.5.4 Magnetic Anomalies

The magnetic anomalies table was determined by the analysis of 271 line km of magnetometer data by CSR. 178 Magnetic anomalies were detected and they tabulated the pertinent remote sensing data for each anomaly (Table 2). CSR Survey Report APPENDIX V MAGNETIC ANOMALIES TABLE.

The 271 line km of magnetometer data was then analyzed by VanZandt Engineering to verify CSR's interpretation of the data and their anomaly table. VanZandt Engineering concurs with the anomalies identified from the raw data.

VanZandt Engineering further modified the Magnetic Anomalies Table to include an estimate of the target mass (Table 3) utilizing the Hall equation (Camidge):

$$w = \frac{\Delta M d^3}{10 nt \frac{m^3}{kg}} \times \frac{b}{a}$$

Where: b/a = target width over length ratio (assumed to = 1) d = Altitude of towfish above the bottom in meters ΔM = Magnetic anomaly strength in nt w = estimated mass of the target in kg

The estimation of mass from the hall equation was used to evaluate the contact size for both the no sidescan contact cases and the sidescan contact cases.

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1	NAUSON N	Studenter	NAMES OF	IT SUCTION	East IUS survey	North PUS survey	Bathymetry	from	1	Amprilude	Sidescan	Height Above	Survey tine	Equivalent Mass from Hall
0	Latitude	Larghtude	Earthe (M)	Narthing IMI	feet)	feet)	(m)	Propased	Polarity	[]ul	ContectIO	Lakebed (m)	(103)	Equation (lig)
M1148	41.6	613	436/03.6	4602578.9	2177756.3	695285.0	15.4	5171	Dipule	256,8		5.4	032_1136	4044
M165	41.5	-81.7	4136154	1 758565P	2194013.1	6967552	12.3	673	Olgole	108,8	C267	68	030_1525	8.21
M290	41.5	1812	443619.9	4599895.3	2194041.0	686759.6	9119	627	Dipote	163.8	88	55	2111 0E0	27.25
ALLA .	41.6	4	41225264	4113/242.5	2120012	10101-1	240	1054		12		04	211 110	1622
DELW	2.15	0110	ASPACA	4001001001	2+03000+	10000000	2 64	610	Clearle	6.20		14	0401 141 200	1000
W167	215	817	1.753444	4538749.4	2196787.5	683045.8	30.6	228.4	Dipole	144,4		11	098 1622	1915
M347	41.6	61.7	640149.4	4501770.1	2162546.4	652714.9	34.6	129.3	Digule	128.2		4.8	032_1136	3418
N725	41.5	118	443709.0	4597585.6	2194441.6	0504935.1	0.0	1001.5	Dipole	145.1		4.3	068 1531	1154
M198	41.6	617	412855.4	4600332,1	2191507/6	666149.6	12.5	55.3	Digule	50.7		61	038_1117	1151
MIL	41.5	41.7	0.200216-	4239011.1	210230812	10181810	00	11062	Dipole	130,6		R'4	066 1333	20 MK
M34	41.5	617	413538.2	4599873.7	2193971.0	666687.5	11.9	92.2	Morapole	187.5	C165	3,6	031_1321	1029
MIS I	41.5	41.7	445582.7	4299026.7	2196850.2	1011031010	00	470.7	Morapale	125.3		413	067 1630	306
M122	41.6	47.7	416960.6	46020319	2176264.7	635686.3	15.5	200	Monapole	0.12	1000	4,9	026 1401	81
MI19	41.5	412	1103040	42355557	2191962-0	C10117.7.3	12.5	82.6	Digole	107.7	CIR	4.1	074 1216	7.E
N00	41.0	474	A200134	4298000-2	212010412	050,04544	2000	2173	UID0E	18		4.1	010 1213	713
100(4%	41.0	A TO	A10046 A	0100000	St Beiges C	00401000		22	Monapow	a.e.		101	CAE 0500	502
L'MA	DI E	ALL A	AIDPLAC	0007702	DI BUBUR D	024420	111	2002	Dissis	1111		5.5	1101 120	610
MIGR	41.6	617	A40139.9	4682024.5	2160500.5	643540.1	14.0	050	Clarke	15.2		4.5	0.25 0958	508
N86	41.6	818	1.529254	4605998.6	2158692.4	736182.1	17.2	173.9	Monapole	130,4		3.5	2121 600	559
W295	41.6	613	6264086	4601775.7	2184657.4	692769.9	00	196.0	Dipole	61.2		4.5	050_0839	558
MB6	41.5	81.7	644997.3	4538867.0	2198619.1	683453.4	30.6	341.6	Monapole	3/82	C432	5.2	070 1609	543
M291	91.6	617	1/696810	4600224.9	2193199.3	667827/0	12.4	102.2	Claste	37.6		5.B	056_1138	539
M3.7	41.6	817	440245.2	4601854.7	2182856.0	652938.0	14.8	2.7	Dignie	155.3		2,2	028 1534	308
M206	41.6	817	440281.1	4601873.0	2160972.8	693060.0	14.7	30.6	Monapole	9'89		4.1	049_0847	473
THM	41.6	112	436806.7	ARREST	2177734.8	00121010	11M	145.6	Morapola	142,2		2.5	2051 200	405
MIS2 M	2110	1011	4128714	ACTIVITY C	21244412 012744412	00401003	124	125.0	Monapole	49.00		5.0	000 1000	451
14134	41.6	1.13	ATTENAL T	4602080.0	21781790	C32G4E.7	111	23.7	Monapole	101.9		11	027 1345	306
MBI	41.6	818	433123.3	4606173.5	2155241.0	706765.0	13.2	116.9	Monapole	129.9	C6	3.0	001 1043	335
M62	21.5	41.7	4445186.4	4535821.7	2196565.9	660314.1	10.4	317.9	Morapole	41.5	Cent	4.1	1121 1120	1955
M92	41.6	61.7	439275.6	4602226.6	2179659.2	6541653	15.2	132.1	Dipule	3.64	C63	3.4	039_1502	313
M215	41.6	419	6754655	4602439.0	2160239.0	654670.6	15.3	122.2	Monapole	61.7	CBS	3.7	047-0911	313
EIW	41.6	817	443088.9	4600161-5	2192283.4	667503.1	12.4	90.0	Dipole	52.6	C157	3.9	10E1_1E0	312
M165	41.6	618	033453.4	4605598.1	2168357.4	704665.5	17.0	65.1	Monapole	19,61		5,4	030 0557	312
DSM	41.6	818	433276.2	4605618.5	7155610.1	7949504	EVI	149.6	Monapole	n e		5.5	2721 EE0	305
M134	41.5	414	0402157	4545910-5	2195025	0609030	11.5	24/10	Mongpole	21.6	1960	4,5	060 1015	306
NA5.0	At 6	Rt 7	010146.2	0601900.7	2164163.0	600064	112	ALC N	Moranole	196.0	FOLV	3.6	008 1534	200
D.4M	5754	817	8/264510	4599000.4	2195331.7	683844.5	11.3	530.9	Dipole	60.0		3.6	076 1720	182
1.CM	41.5	61.7	4441454	4596682.8	2195694.1	682810.7	10.5	525.8	Monapole	8112	C318	4,0	077 1735	266
MISSIN	42.6	818	413236.6	4615720.8	2159628.4	703266.6	12.1	61.6	Monapole	12.6		5.5	4560 0EO	192
M11	41.6	61.7	412645.2	4600297.2	2191469.5	666034.4	12.5	91.7	Motapole	30.7		4,4	031_1301	82
C01W	41.6	817	1.082564	4600156.8	2191920-0	687573.1	12.4	147.1	Disola	73.5	CMI	1.1	2013 1012	202
COTIN	10 10	100	Bankery	A CONTRACTOR	210002612	1.0002400	100	04200	Montoli	4 m	1000	3.0	A48 1542	366
694	41.5	417	043698.5	4599802.9	2194271.3	666450.3	12.1	109.8	Monacole	192		4.0	016 1710	248
MILED	41.6	817	441228.4	4601147.2	2166122.4	690732.1	6.11	139.4	Morapole	25.2		4.8	011 1522	246
69W	41.6	618	433275.8	4605768.1	2155764,4	705444.1	12.1	67	Monapole	61.0	80	3,4	005 1408	24.0
M133	2.19	817	444115.4	4596934.0	2195722.0	2.019193	114	483.6	Monapole	21.8		4.8	079 1556	235
M58	41.6	617	440303.3	4601821.0	2163049.6	692690.7	34.6	27	Dipole	9.38		3.0	026 1534	229
MB	41.6	478	441930.9	4600908.7	2168446.8	1139689	13.2	91.4	Monapole	68.6	1000	3.2	1 BET 1EO	325
M34	41.5	414	040413.0	02349662	2196726.6	061343.0	1.00	245.0	Morapole	22.3	C152	4.6	070 1609	217
- 01.10	1111	6.10	TODADEN	AD10425	SUDDAL SUDDAL	+ 7 0000	1010	1750	Cipus Name	100		2.0	1071 100	502
NK NK	41.0	212	410595.8	3 0071030	2184354.8	641857.9	14.5	80.4	Disole	9102		6/8	1201 1201	198
N217	41.6	618	433195.2	4605680.3	2159504.4	705180.9	1.71	113.6	Monapole	32.9		3.9	022 1108	195
1413.24	41.6	81.7	440458.0	4601809.2	2183556,9	652860.7	14.3	61.6	Monapole	11%		1.1	026_1421	261
M50	41.6	619	433765.4	4605759.1	2153730.8	785413.9	121	15.6	Morapole	49,1	CB.	3,4	028,1434	193
Million	41.6	111	A40254A	4401381090	T.MSRUET	EFGURA.R	82	7.97	Dipate	1.100		3.2	017 1345	262
MILTIN.	91.6	-81.7	440462.2	S'AGSTOSE	2183577/0	65242434	142	812	Dipole	1.80		2/2	029 0818	262

Table 3 Magnetic Contacts Sorted by Mass

AADR.	Tanan tahun	TIL DOUD	The Tests 17	NAMES OF CASE	the Flate North	Marine Magnes	Interest Anomalie			Accedated	Monatherated		
				East (US survey	North (US survey	Balliymery	fars		Amplitude	Sciencen	Hield'st Above	Survey Line	Equivalent Mass frem Hall
Ladbude	Longlaufe	Easting (M)	Northfrig (M)	Trend of a	feet)	(11)	Proposed	Palacty	(41)	Cartext ID	Lakabed (m)	(101)	Equation (kg)
41.5	1112	1111111111	A NORTH A	21020010	0000000	10.4	2191.7	Nanogana Nana	22.6	Case	40	Deco 1212	137
41.6	31.7	2905.60.8	2001004	0.0004040.0	PODMING S	16.0	69.4	Munantia	200		2.8	0.91 1.041	(1)
416	817	439358.5	4602357.1	2179851.6	8.262469	15.2	1.7	Ditole	28.8		52	0.28 1514	141
41.5	1718	644311.0	4598576.4	2196383.5	682478.9	1.0.1	9,99,8	Manogale	26.3		4.0	064_1537	169
41.6	81.7	640507.3	5761X1097	2183722.0	693667.6	14.2	3'68	Dipole	92.4		2.6	127_1405	191
41.6	81.7	443035.1	4600192.3	2192105.1	687703.0	12.4	88	Clock	21.3	032	42	031_1301	159
41.5	118	644489.7	2.9588279.5	2106052.7	1.9/16/09/	11.1	1.19.1	Cipole	a a a a	CRI	10	000 130B	156
910	1111	1.7.295.90	40011070	a particular	1400000	194	12.1	14pole	19.0		4.2	100 000	100
217	4(7	110000	1000007	2.10010012	CORD OF C	100	418.6	Marcourte	20.0		41	1201 1201	110
415	813	443993.0	45986910	2106318.Y	683458.3	11.1	198.8	Marcania	10.8		105	061 1414	135
41.6	6.18	441968.6	4600699.5	2198539.1	689968.8	13.3	2.4	Managale	9.6		3	0.26 1554	135
416	818	434038.0	4605228.5	2162296.1	703716.7	16.9	17E6	Menegale	6.99		27	031 1141	132
41.5	817	444233,8	4598623.5	21961275	682621.1	10.3	459,8	monopole	39.7		32	079.1556	130
41.5	278	444285,9	4,598486.7	2196293.2	682173,3	8.8	454.1	Manopola	37.5		32	079_1556	123
41.5	81.7	444362.9	4598521.6	2196556.9	1,002280	10.0	866.3	Managule	28.1		3.9	882,1541	119
41.6	8718	433203.1	4605677.5	2183631.2	27921504	17.1	118.5	Marcquia	27.00		2.4	192 1296	119
41.6	61.7	443368.2	4600344.7	2193244.5	687892.8	12.4	126,4	Marcoule	7.9		2	056_1138	118
41.0	81.7	44.34 78.6	136900981	2.130.061.2	088673.0	12.8	34.6	Muricoptie	19.65		27	131 1301	117
41.6	178	442759,4	4600314.1	2191193.5	088085,1	12.6	117.5	Cipole	72.3		25	032_1116	113
41.6	100	433369.4	46055684	2160148.5	P04793.2	171	912.4	Managala	15.0		68	132 1236	113
210	210	420000 C	1 OCLOUDE	1000212	C04730 1	151	120.7	Manada	17.0		24	0.22 0.013	110
415	615	430808.3	F CPLODE	2180406.5	603016.0	14.0	54.7	Circle	100	C121	13	2121 1245	100
41.6	81.7	440195.5	4602825.0	2.182683.3	002554.0	14.0	121.6	Dipole	5.65		25	DAM JOAK	687
41.6	81.8	433745.6	4605500.6	2161324.5	704593.0	17.0	1.8	Mercodie	00.00		3.3	0.28_1434	100
41.0	41.7	440155.6	4601722.9	2182572.7	002500.4	14.7	101.0	Manopole	1.84		2.5	133 1622	108
41.6	817	442037.5	1.787.0384.1	61649812	689896.3	13.1	1981	Monopole	16.8		4.0	030_1057	109
41.5	178	444195.0	4558294.3	2190094.0	681343.3	976	608.2	Marcaala	25.0		2	075 1702	101
41.5	412	64077.5	40017153	239459917	092962.2	14.5	136.2	Cipole	28.4		2	020 0639	163
416	817	435456	5050000	0.1900/93.4	605006.6	15.9	157.6	mmonie	10.5	083	53	023 0037	60
41.6	817	0,703625	4502444.1	2190204.6	634996.6	153	121.6	Manopule	122.2	2002	2.0	0.24_1045	85
41.6	118	439263.8	4602437.5	2179604.2	634756.3	E'51	5.1	Manapola	16.4		23	0.78 1514	26
41.6	278	440803.4	4601-030.1	2184753.2	601538.2	tad	123.5	Micropule	18.6	C167	45	032_1116	16
61.6	119	1000010	17422000	2.170106.2	COMMAND.E.	191	100,6	Managale	41.4		12	121 1221	22
215	110	1920344	4000333-C	C. UPPORT	14141400	100	100	Citola	35.6		3.6	0.95 1466	12
41.6	81.7	42774.4	4600616.5	21912255.6	689078.3	12.7	153.2	Menegola	29.0	C276	31	023 0857	1 28
41.6	618	443235.0	4500181.7	2192763.0	687677.7	12.6	8.8	Managale	2.5		4.4	0.28, 1554	29
41.6	81.7	440013,4	4602018.0	2187082,8	693523.6	14.8	250	Menogola	25.1	C138	32	227_1345	82
41.6	81.7	439924.1	4602178.3	2181784,0	604041.6	14.9	122.7	Marconle	585		2.1	0.24 1046	8
11.5	118	ALACIAN I	1 COLOGE	of the property	CONTRACT, III	t a c	141 H	Crimes.	197	24.95	10	DEC 1001	36
41.6	118	440236.8	4601682.7	2.065016.3	692270.5	14.3	140 P	Managia	19.4	200	17	035 1022	14
41.6	619	439442.5	4602415.3	2,180,194.2	034792.0	15.3	24.1	Manogole	14.1	082	65	047 0911	11
41.6	81.7	437881.5	4603108.1	2175028.6	£96975.B	15.6	51.5	Managaria	11.1		4.0	100,1037	11
41.6	118	235464.5	4502457.8	2190266.5	694932,8	15.5	142.3	Manogole	14.0	8	87	147_0911	И
41.6	817	441768.3	975560097	2187906.1	6900684	581	119	Marcapia	82		44	130, 1057	2
415	210	433105/2	1001000	C(COMCL)	002256.0	14.6	5172	alone Distante	20.00	1112	20	1001 000	2
41.5	81.7	444355,2	4598638.3	2196538.2	682676.8	10.2	335.5	Marcaule	21.6		3.1	083 1615	64
41.6	111	443661.5	4001211.4	2,187540,5	600067.3	13.1	128.2	Manopale	15.0		22	124_1026	14
41.5	81.7	443941.8	45989684	2195149.8	683735.3	11.3	6758	Cripole	29.2		2.8	874_1516	54
41.6	81.7	436764.3	4603633.5	2177952.5	1.3624263	15.4	52.8	Marcopola	11.6		3.8	130 1037	2
41.6	618	6,89865.9	4602056.3	2181665.5	693641.1	14.7	6.1	Cipole	16.6		3	026 1594	9
416	81.7	4410283.5	4/2020112-9	2182966.1	693522,4	14.5	153.5	Managala	18.0		52	1153 0917	6 0
212	178	244167.7	£1508087.9	21938873.5	683813.8	11.5	426,4	Ofpole	0	C101	45	EOK1 180	95
41.6	418	439612.9	4602035.5	2180770.9	693555.7	151	153.9	Otpole	16.7		9.2	833, 1602	55
41.0	112	4.39246.8	4602230.5	2179664.6	SDM304.6	12.2	1.02	Ditole	11.2		2.6	130 1037	22

1							Marine Magneto	mater Anomalia						
1	NADESI	Geographic	U KSOWN	TM Zane 17	Fauld Contract Structures	Moreh Risk words	Bathaonahou	Distance		Avenue	Associated	Magnetameter	Survey I've	Fundamental and from Hall
0	Lathuda	Longfords	East Yes (M)	Northing (M)	faet]	(aut)	(m)	Preposed	Palarity	(14)	Centract (D	Lakebed (m)	C.EDT1	Equation (kg)
M40	41.5	-81.7	444927.7	4598654,8	2198391.4	683419,4	10.4	271.5	Manopale	42.6		23	0.24_0346	52
54142	41.6	1.18	443921.7	4600774.5	2189455.4	GR0549,0	13.7	120.8	Mariopale	17.2	C197	3.1	032_1116	15
1474	41.6	81.7	443176.B	4600391.3	2192558.B	688362.1	12.4	A.E21	Cipole	23.2		2.8	123 0857	51
M96	41.6	1.18	440068.0	4601782.0	2182278.6	692749,4	14.6	152.7	Olpote	18.6		3.0	033_1622	50
SOTIN	41.6	21.7	435823.7	4602195.7	2181453.5	694093.0	15.0	88.8	manopala	65.5		18	0.25 0958	20
M196	41.5	81.7	441921.6	4600046,9	2188414.1	669766,0	13.3	62.6	Muropale	6.7		4.2	030_1057	50
ML55	41.6	31.7	420060.2	4602218.5	2180915.7	034158.6	14.9	#)	Maropela	11.7	C102	1.1	5101 420	49
M161	41.6	81.7	440468.7	4601762.6	2183594.6	69270844	14.2	26.2	Cipole	28.0		26	027_1405	49
2018	41.6	878	433115.4	4605390.2	2159225.4	706161,8	17.3	1.5	Maropale	10.1		3.6	005 140E	47
M95	41.6	1.18	499990.5	4601621.1	2182022.1	692873.5	14,6	156.5	Cipole	33.5		24	033_1622	46
881W	41.6	81.7	439023.3	4602480.5	2178810.9	694982.2	15.2	53.9	Cripole	178		36	120 1037	45
M121	41.6	81.6	433016.7	4606269.2	2158892.5	707073.8	17.3	6,68	Marropule	22.3		27	002_1121	44
M18	415	81.7	443981.7	4,599350,4	2194996.6	97286983	11.6	398,0	Maropale	15.6		30	058 1452	42
ML15	41.6	41.7	4,536667.7	4602791.7	1/9628412	605797/6	15.6	69/2	Manopele	23.9		2.6	025_1016	42
1599	41.6	81.8	433404.3	4605693.3	E.0610615	705205.9	17.1	2.7	Manopula	17.0		23	028 1434	41
86W	41.6	41.7	440218.6	4601691.2	2182751.7	692459.5	14.5	162.3	Cripole	20,2		23	033_1622	40
8114	41.6	81.7	440775.5	4601723.5	2184617.0	1.162163	14.5	144.0	Manopala	15.9		2.9	123 0917	35
M1.57	41.6	61.7	4,99660.7	4602106,4	2181580.0	693902.1	14.8	29,0	Manopple	5.11	C129	32	027_1345	38
M93.	41.6	81.7	439531.0	4602088.9	3180499.L	683725.9	15.0	147.4	Dipole	17.1		2.8	033 1602	8
M27	41.5	81.7	444653.9	4596600,4	2197495.0	683225,4	10.3	6.2	Manopule	32.5		22	065_1528	35
Set 100	41.6	1.10	420027.3	4602131.1	2190846.2	625870.5	15.0	38,6	Markopale	8.7		3.4	130_1037	14
161m	41.6	81.7	439756.8	4602065.3	2181241,4	633661,3	14,9	53.7	Clipole	9.5		3.9	030_1037	34
M182	41.6	81.8	434940.3	4604772,4	2165423.8	702273.7	16.6	29,0	Manopple	11.2		1.1	029 0916	34
-62W	41.6	81.7	440364.2	4601968.5	2185240.0	693378.1	14.7	154.7	Manopple	13.3		2.9	025 0917	32
Mf113	416	81.7	435440.8	4602410.5	2180184.9	694776.1	15.3	89,0	Cripole	25.6	C82	2.3	8260 228	11
SM120	41.6	81.6	433248.7	4605953.2	2159665.0	706049,9	17.1	66.5	Martopale	20.2		2.4	002_1121	28
5445	41.6	81.7	440077.4	4602088.1	2182292.1	693754.3	14.9	118.9	Dipole	24.7		22	124, 1046	26
64.1M	41.6	61.7	499035.4	4602499,2	2178949.6	695044.2	15.2	31.7	Clock	32.0	CS0	2.0	029_0838	26
M112	415	81.7	E1119525	4602387.6	2180306.0	1.507168	15.2	88.9	Dipole	20.4	(87	23	8260 220	25
M108	41.5	91.7	4449,28,4	4598819.2	21/8/6/9/5	683302.2	10.5	254.0	Manopple	17.8	C418	24	025.0018	19
SK1W	41.6	81.7	441782.3	4600361.2	2187952.5	690153.2	13.5	35.7	Marcopala	17.5		2.4	9139 0818	24
18W	416	81,6	432636.2	4606581.4	2157619.4	709076,5	17.4	31.5	Manopple	20.7		2.2	006_1317	22
M5	41.5	1.18	440233.3	4601720.1	2183041.8	692559.4	14.3	10.00	Cripole	O'LE		2	131 1341	22
P/ IW	919	81.7	441955.3	4600858.4	2188553.6	685826.1	13.2	31.7	Opole	121		1	0.29 0818	21
MIL10.	979	118	4.26/19/4	4002781/2	21/0/08/4	210/6600	19.6	1010	Cipote	14.4		24	ATOT	20
21196	214	212	4244241	4505221.0	2 10020017	FUG/14.2	1912	24.2	Manopula	212		2.1	1000 ANN	07
MI 40	116	110	C SHOLFF WE	46001373	T CT22212	0710737	195	123.9	Marconia	16.3	-59C2	23	030 1056	61
ML17	41.6	81.8	436180.7	4604228.9	2169398.5	700558.3	15.7	69.0	Maropple	11.8		25	025 1038	18
M171	41.6	61.7	442032.4	4600624.1	2198779.0	689717,4	13.1	28.3	Manopule	52.0		21	029-0758	18
M141	416	81.7	442988.0	4600185.0	E.P291915	687574.5	12.4	118.3	Maropsia	14.3		2.3	032_1056	11
M204	41.6	61.7	441058.5	4601216.3	2185561.0	690549.2	14.1	162.2	Manopule	4.8		3.3	0.51_0890	17
SM43	416	81.7	440512.9	4601846.9	2183734.9	53287.5	14.3	121.3	Dipole	18.4		2.1	124 1026	17
M111	41.6	-91.7	439644.4	4602295.2	2180859.5	694409,4	14.9	66.0	Cripole	20.9		1.9	025 0958	14
M203	41.5	81.7	441596.9	4601152.4	218733L3	690770.0	13.1	45.2	Marropale	RA		25	0.52 0822	8
M172	41.5	1.18	441954.9	4600658,5	2199522.8	683825.9	13.2	36.2	Manoptie	21.4		16	029_0758	6
M83	41.6	81.7	437833.9	4603387.4	2174856.6	697890.5	16.0	155.9	Mariopala	13.3		18	123 0937	90
M42	41.6	81.7	441101.7	4601517,5	2185685.7	691940.0	14.2	121.7	Olpole	23,9		1.3	0.24_1026	55
11172	41.6	112	441949.2	4600567.8	1.73 Melet C	CODRISS.R	11.1	1.11	Mariopole	7.4		19	1259 0758	
STIM ST	415	118	441945.7	4600870.5	2188505.0	063905.0	13.2	283	Manopale	12.3		15	0.29 0816	2
MILO7	41.6	118	44.28.74.5	4600487.3	2191917	600060.F	12.6	1.00	Cripote	18.2	1010	1.6	0.25 0938	
TTTW ITT	910	110	435631.5	40021850	1,0040012	1/200050	14,5	10.2	Manopale	122	6773	12	0465 0455	9.5
10101	110	41.4	212207 Mar	PORTONIA C	ALTERNAL D	00000000	8.27	141	Allowed a	100		11	Net ABLE	
ITRIW	410	1110	4 201 / 24	0,4002343,5	21/0013-8	030473.5	15.0	27.1	Manoppie	-30		2.2	0.250 .052.0	25

5.5.4.1 Magnetic Anomalies with Sidescan Sonar Contacts

Of the 178 total magnetic anomalies recorded 38 had associated sidescan sonar contacts (Table 4). These magnetic anomalies were analyzed with the detailed sonar contact information in the attached CSR Survey Report APPENDIX IV, SIDESCAN SONAR CONTACT SONOGRAMS. A description of the analysis results for each target is presented in Table 5.

1								Mannel	Viagnetometer Ano	molies					
۲	NAD83 GE	eographic	NAD83 UN	TM Zone 17	NAD83 Ohio St	tate Plane North		Distance			Associated	Magnetometer			
ç	l attride	l ondituda	Eacting (M)	Northing (MI)	East (US survey	North (US survey	Bathymetry /m/	from	Delority	Amplitude /nT/	Sidescan Contact ID	Height Above Lakehed (m)	Survey Line	Equivalent Mass from Hall	Description
MIG	41.5	-81.7	443611.4	4599894.1	2194013.1	686755.2	12.3	67.9	Dipole	108.8	C287	-anceed (m)	030 1525	3421 Mg	slag or dredge spoil
M200	41.5	-81.7	443619.9	4599835.3	2194041.0	686759.6	11.9	62.7	Dipole	163.8	C288	55	030 1117	2725	stag or dredge spoil
M14	41.5	-81.7	443598.2	4599873.7	2193971.0	686687.5	11.9	92.2	Monopole	187.5	C285	38	031 1321	1029	slag or dredge spoil
M19	41.5	-81.7	443601.7	4599882.7	2193382.0	686717.3	123	82.6	Dipole	107.7	C285	4.1	074 1516	742	slag or dredge spoil
M36	41.5	-81.7	444997.3	4598867.0	2198619.1	683463.4	10.6	341.6	Manapale	38.6	0432	5.2	070 1609	543	Near breakwall. Dimension and mass of target consistant with 6 cu ft dumpter
M84	41.6	-81.8	433123.3	4606173.3	2159241.0	706765.0	17.2	116.9	Monopole	1239	8	30	001 1043	335	2x1 m point source
M62	41.5	-81.7	444 986.4	4596821.7	2196565.9	683314.1	10.4	317.9	Monopole	41.5	C431	4,3	071 1627	330	2 x 2 m slag or scrap pile
M92	41.6	-81.7	439275.6	4602226.6	2179653.2	694163.3	15.2	152.1	Dipole	79.6	C63	34	033 1602	313	3 x 1 m linear contact, probable scrap
M215	41.6	-81.7	433457.8	4602439.0	2180239.0	694870.6	15.3	122.2	Monopole	61.7	CSS	37	047_0911	313	slag
M13	41.6	-81.7	443088.9	46001615	2192283.4	687603.1	124	90.0	Dipole	52.6	C257	39	031_1301	312	Dredge spoil
M166	41.5	-81.7	44490.0	4598725.0	21969625	682968.7	10.4	185.0	Dipole	8.0	C365	6,4	091_1609	304	4 x 0.4 m linear contact, scrap
M71	41.5	-81.7	444145.4	45 98682.8	2155834.1	682810.7	10.5	526.8	Monopole	31.2	C318	4.4	077 1735	266	stag or dredge spoil
M102	41.6	-81.7	442984.1	4600154.8	2191939.9	687575.1	124	147.1	Dipole	71.5	C243	33	033 1642	257	slag or dredge spoil
M103	41.6	-81.7	443179.8	46000475	2192588.2	687234.1	125	145.0	Dipole	6 5.3	C263	34	033 1642	27	8 x 0.4 m linear contact, scrap pipe or shaft
M49	41.6	-81.8	433275.8	4605768.1	2159764.4	705444.1	17.1	1.9	Monopole	61.0	8	34	005 1408	240	Unknown, circular 5.5 m dia, no height
M34	41.5	-81.7	44413.0	4598429.0	2196726.6	681993.0	101	345.6	Monopole	22.3	CB52	4.6	070 1609	217	Unknown, circular 2.5 m dia, possible mushroom mooring buov
MSO	41.6	-81.8	433265.4	4605759.1	2159730.8	705413.9	17.1	15.6	Monopole	49.1	8	34	028 1434	193	Unknown, circular 5.5 m dia, no height
M29	41.5	-81.7	444662.0	4598663.4	2197531.0	682743.5	101	41.7	Dipole	27.6	C384	4.0	069_1543	177	Unknown, rectangular contact, 2x 2 meters, no height
M12	41.6	-81.7	443035.1	4600192.9	2192105.1	687703.0	124	88.9	Dipole	21.3	C252	4.2	031 1301	158	slag or dredge spoil
M164	41.5	-81.7	444489.7	4598879.6	2196952.7	683476.0	11.0	139.9	Dipole	68	C363	5.6	094 1509	156	Pipe or shaft
M156	41.6	-81.7	439808.3	4602142.3	2181406.0	633916.9	14.9	34.7	Dipole	36.7	C121	31	027_1345	109	stag or dredge spoil
M82	41.6	-81.7	433456.8	4602480.5	2180233.4	635006.8	15.3	157.9	Manapale	19.3	C83	37	023_0937	8	stag or dredge spoil
M144	41.6	-81.7	440809.4	4601400.1	2184733.2	691538.2	14.4	1235	Monopole	10.6	C167	45	032_1116	26	slag or dredge spoil
M75	41.6	-81.7	442774.4	46006165	2191225.6	689078.3	127	153.2	Monopole	29.0	C226	31	023_0657	8	Pipe or shaft
M158	41.6	-81.7	440012.4	4602018.0	2182082.8	6935.20.6	14.8	26.0	Monopole	5.1	C138	32	027 1345	82	stag or dredge spol
M26	41.5	-81.7	444945.0	4599002.6	2198439.8	683905.4	105	331.4	Dipole	108.9	0426	1.9	066_1528	ĸ	Unknown, circular target 2m dia x 0.5 m tall, low mass so thin
M214	41.6	-81.7	4394425	4602415.3	2180190.2	694792.0	15.3	94.1	Monopole	14.1	C82	3.7	047_0911	71	Pipe or shaft
M216	41.6	-81.7	439466.5	4602457.8	21802665	694932.8	15.3	142.9	Monopole	14.0	C86	3.7	047_0911	Ц	stag or dredge spoil
M192	41.6	-81.7	439986.3	4601932.6	2182002.0	693238.9	14.6	61.3	Dipole	24.8	C137	30	030_1037	67	Pipe or shaft
M139	41.5	-81.7	4441627	4598987.9	2155873.6	683812.8	11.5	406.4	Dipole	5.8	C321	4.6	081_1703	56	Pipe or shaft
M143	41.6	-81.7	441931.7	4600774.5	2188451.4	689549.0	132	120.8	Monopole	17.2	C197	31	032_1116	51	Unknown small point source, low mass
M155	41.6	-81.7	439660.2	46022185	2180915.7	694158.6	14.9	28.8	Monopole	13.7	C102	33	027_1345	49	stag or dredge spoil
M157	41.6	-81.7	439860.7	4602106.4	2181580.0	693802.1	14.8	29.0	Monopole	11.5	0129	32	027 1345	8	Unknown small point source, low mass
M113	41.6	-81.7	433440.8	46024105	2180184.9	694776.1	15.3	89.0	Dipole	25.6	C82	23	025_0358	31	Pipe or shaft
M112	41.6	-81.7	439477.3	4602387.6	2180306.0	694703.1	15.2	86.9	Dipole	20.4	C87	23	025_0358	22	Possible small anchor and chain
M106	41.5	-81.7	444920.4	4598819.2	2198369.5	683302.2	105	254.0	Manapale	17.8	C418	24	025 0918	р	Unknown, rectangular contact, 3.5 x 2.x 0.5 meters, possible box, low mass
M140	41.6	-81.7	443065.2	4600137.3	2192272.7	687523.4	125	112.9	Manapale	15.3	C256	23	032 1056	19	slag or dredge spoil
M211	41.6	-81.7	439831.8	4602108.0	2181485.1	693805.7	14.8	16.2	Monopole	22.7	0125	1.2	048 0856	4	Unknown small point source, low mass

Table 4 Magnetic Anomalies with Sidescan Sonar Contacts

Table 5 Analysis Description of the Magnetic Anomalies Associated with Sidescan Sonar Contacts

			Marine Ma	gnetometer Anomoli	es
		Associated	Magnetometer	Equivalent Mass	
	Amplitude	Sidescan	Height Above	from Hall Equation	
ID	(nT)	Contact ID	Lakebed (m)	(kg)	Description
M165	108.8	C287	6.8	3421	slag or dredge spoil
M200	163.8	C288	5.5	2725	slag or dredge spoil
M14	187.5	C285	3.8	1029	slag or dredge spoil
M19	107.7	C285	4.1	742	slag or dredge spoil
					Near breakwall. Dimension and mass of target
M36	38.6	C432	5.2	543	consistant with 6 cu ft dumpster
M84	123.9	C6	3.0	335	2 x 1 m point source
M62	41.5	C431	4.3	330	2 x 2 m slag or scrap pile
M92	79.6	C63	3.4	313	3 x 1 m linear contact, probable scrap
M215	61.7	C85	3.7	313	slag
M13	52.6	C257	3.9	312	Dredge spoil
M166	25.8	C365	4.9	304	4 x 0.4 m linear contact, scrap
M71	31.2	C318	4.4	266	slag or dredge spoil
M102	71.5	C243	3.3	257	slag or dredge spoil
M103	65.3	C263	3.4	257	8 x 0.4 m linear contact, scrap pipe or shaft
M49	61.0	C8	3.4	240	Unknown, circular 5.5 m dia, no height
					Unknown, circular 2.5 m dia, possible mushroom
M34	22.3	C352	4.6	217	mooring buoy
M50	49.1	C8	3.4	193	Unknown, circular 5.5 m dia, no height
0201040400204		1455 F 200 (1460 A		0.0000000	Unknown, rectangular contact, 2 x 2 meters, no
M29	27.6	C384	4.0	177	height
M12	21.3	C252	4.2	158	slag or dredge spoil
M164	8.9	C363	5.6	156	Pipe or shaft
M156	36.7	C121	3.1	109	slag or dredge spoil
M82	19.3	C83	3.7	98	slag or dredge spoil
M144	10.6	C167	4.5	97	slag or dredge spoil
M75	29.0	C226	3.1	86	Pipe or shaft
M158	25.1	C138	3.2	82	slag or dredge spoil
	100.0	0.000		75	Unknown, circular target 2 m dia x 0.5 m tall, low
M26	108.9	C426	1.9	75	mass so thin
M214	14.1	082	3.7	/1	Pipe or shaft
N/216	14.0	0127	3.7	/1	siag or dredge spoll
M192	24.8	C137	3.0	67	Pipe or shaft
N1142	2.8	C321	4.0	50	Linknown small point source, low mass
N4155	17.2	C197	3.1	51	slag er dredge speil
M157	11.5	C102	2.5	49	
M112	25.6	C129	3.2	21	Pipe or shaft
M112	25.0	C87	2.5	25	Possible small anchor and chain
WIIIZ	20.4		2.5	25	
M106	17 8	C418	24	25	meters possible box low mass
M140	15.3	(256	2.4	19	slag or dredge snoil
M211	22.7	C125	12	13	
IVIZII	22.1	0125	1.2	4	onknown sman point source, iow mass

Each magnetic anomaly was compared to its corresponding sonogram, and an inference was made as to what the object could possibly be based on the image likeness and estimated mass. Some comparison yielded reasonable assumptions to the object's identity and some did not. For example anomaly M165 is associated with contact C287 (Figure 32).





The sonogram for C287 was identified as slag or dredge spoil and the associate magnetic anomalies estimated mass of 3421 kg supports the hypothesis that this is indeed a slag pile or pile of some other magnetic material.

Magnetic anomaly M34 is associated with contact C352 (Figure 33). The contact is described as a circular contact but it resembles a mushroom mooring anchor and its mass of 217 kg support this conjecture.



Figure 33 C352 (CSR)

Some anomalies with sonograms are simply unknown where the image and mass say very little about the object. For example M143 is associated with C197 (Figure 34).



Figure 34 C197 (CSR)

C197 is an unidentifiable object with an estimated mass of 51 kg and a size of 2 x 1.5 meters. It is unknown but it does not resemble anything that might be considered an artifact or object of historic significance.

The analysis of the 38 magnetic anomalies with associated sidescan sonar contacts yielded no objects of historical significance, although several possible manmade contacts were found they are disarticulated with no archaeological context, thus do not represent potentially significant historical resources.

5.5.4.2 Magnetic Anomalies without Sidescan Sonar Contacts

Of the 178 total magnetic anomalies recorded 140 had no associated sidescan sonar contacts (Table 6). These magnetic anomalies were analyzed with the detailed magnetic anomaly profile information in the attached CSR Survey Report, APPENDIX VI MAGNETIC ANOMALY PROFILES - INSIDE 150M CORRIDO and APPENDIX VIII MAGNETIC ANOMALY PROFILES - OUTSIDE 150M CORRIDOR.

							Marine Magneton	neter Anomolies						
NAUS	3 Geographic	NAU83UI.	M Zone 1/	East (US survey	ate Plane North North (US survey	Bathymetry	from		Amplitude	Sidescan	Magnetometer Height Above	Survey Line	Equivalent Mass from Hall	
itude	Longitude	Easting (M)	Northing (M)	feet)	feet)	(m)	Proposed	Polarity	(nT)	Contact ID	Lakebed (m)	(_EDT)	Equation (kg)	Description
1.6	-81.7	438703.6	4602578.3	2177756.3	695285.0	15.4	124.9	Dipole	256.8		5.4	032_1136	4044	Possible anchor and chain
1.6	-01.0	432958.4	4605992.3	2158710.1	706161.7	17.2	123.4	Dipole	79.7		6.6	021_1118	1622	Same as M86
112	-81.7	445071.7	4599019.0	2198854.7	583955,4 607433.4	0.0	4.7.4	Monopole	233.1		6.5	067 1650	\$212 ACOL	Outside of survey area
1 10	/10-	5.022545	1./0100054	1.0062612	00/433.4 6030.45 0	10.6	0.10	Dipole	7.00		5.1	030 1622	1015	
91	2.12-	AA01A9 A	4020/42.4	2182546.4	692714.9	14.8	123.3	Dinole	128.2		48	032 1136	8191	
1.5	-81.7	443709.0	4597985.6	2194441.6	680498.1	0.0	1091.5	Dipole	145.1		4.3	068 1551	1154	Outside of survey area
16	-81.7	442855.4	4600332.1	2191507.6	688149.6	12.5	55.3	Dipole	50.7		6.1	030 1117	1151	Same as M11
1.5	-81.7	445005.9	4599011.1	2198639.2	683936.7	0.0	392.1	Dipole	136.6		4.3	066 1555	1086	Outside of survey area
1.5	-81.7	445082.7	4599028.7	2198890.2	683998,8	0.0	470.7	Monopole	125.3		4,3	067 1650	996	Outside of survey area
1.6	-81.7	438860.6	4602697.9	2178264.7	695686.3	15.5	56.2	Monopole	74,9		4,9	026 1401	881	Possible anchor and chain
1.5	-81.7	444519.4	4598505.3	2197071.4	682249.4	10.0	221.5	Dipole	68.7		4.7	070 1609	713	1 10 10 10 10 10 10 10 10 10 10 10 10 10
1.6	-81.7	438812.3	4602664.5	2178108.1	695574.0	15.5	3.5	Monopole	98.0		4.1	028 1514	675	Possible anchor and chain
1.6	-81.7	439945.8	4602295.9	2181848.5	694428.7	0.0	235.9	Monopole	71.7		4.5	048 0856	653	Outside of survey area
1.6	-81.7	440844.6	4601412.2	2184848.0	691579.9	14.4	95.8	Dinola	76.8		4.3	031 1241	611	
1.6	-81.7	440139.8	46020245	2182500.5	693549.1	14.9	93.9	Dipole	75.2		4.3	025 0958	598	
16	-81.8	132953.1	4605998.6	2158692.4	206182.1	17.2	123.9	Mononle	130.4		35	009 1213	559	Same ac M218
91	-81.7	440792 8	AF01775.7	2124657.4	692769.8	2.17	196.0	Dinola	612		25	050 0839	552	Outlade of anyou area
11.6	-81.7	443369.1	4500224 9	2193199.3	687827.0	12.4	102.2	Dinole	27.6		o o	056 1138	539	Comptanted ac 202
	1.10	C BY COPE	- + + + + + + + + + + + + + + + + + + +	0.000000	0.00000	0.11	21201	Diacle			0.0	000 1637	000	COLLECTOR CON
41.0	- 10	7.0221044	1.90201094	110202017	03/23/96.0	14.0	1.1	Upple	5.00		3.2	970 0012	500	
41.0		1.102004	400.16/3.0	071222170	033000.0	14./	30.6	Monopole	140.0		4.1	1420 640	9/3	Research and the second sheets
41.0	/***	430030./	4'0CC7 00b	7111340	517060	10.4	0'0'1	aiodouoivi	14.6.0		3.2	1012 1002	C05	Possible anchor and chain
41.5	-81.7	445031.4	4599035.7	2198721.5	684018.9	0.0	423.7	Monopole	57.5		4.3	066 1555	457	Outside of survey area
41.0	-81.7	441387.4	5001020	2180049.0	090423.8	13.4	140.0	Monopole	48.4		4.3	033 1022	365	a
41.6	-81.7	438834.3	460.2686.9	2178179.0	695648.7	15.5	33.7	Monopole	101.9		3.3	027_1345	305	Possible anchor and chain
41.6	-81.8	433453.4	4605588.1	2160357.4	704863.5	17.0	65.1	Monopole	19.8		5.4	030_0957	312	
41.6	-81.8	433226.2	4605618.5	2159610.1	704950.4	17.1	149.6	Monopole	26.3		4,9	033_1522	309	
41.5	-81.7	444215.7	4599016.3	2196045.9	0.606839	11.5	347.0	Monopole	31.6		4.6	083_1615	308	
41.6	-81.7	440344.2	4601800.7	2183183.9	692826.4	14.4	1.4	Monopole	134.0		2.8	028_1534	294	
41.5	-81.7	443997.8	4599000.4	2195331.7	683844.5	11.3	530.9	Dipole	60.0		3.6	076_1720	280	
41.6	-81.8	433236.6	4605720.8	2159638.4	705286.6	17.1	61.6	Monopole	15.8		5.5	030_0957	263	
11.6	-81.7	442843.2	4600297.2	2191469.5	688034.4	12.5	91.7	Monopole	30.7		4.4	031 1301	262	Same as M198
11.5	-81.7	444258.8	4598350.9	2196225.0	681728.0	9.7	515.9	Monopole	54.7		3.6	069 1543	255	
11.5	-81.7	443688.5	4599802.9	2194271.3	686460.3	12.1	109.8	Monopole	29.1		4.4	076 1720	248	
11.6	-81.7	441228.4	4601147.2	2186122.4	690732.1	13.9	139.4	Monopole	22.4		4.8	033 1622	248	
11.5	-81.7	444115.4	4598924.0	2195722.0	683600.5	11.4	482.6	Monopole	21.6		4.8	079 1556	239	
1.6	-81.7	440303.3	4601821.0	2183048.6	692890.7	14.6	3.7	Dipole	84.8		3.0	028 1534	229	
116	-01.7	441020.0	ALONDON 7	2100446.0	600661.1	12.2	01.4	Mononola	60.6		00	121 1201	335	
-	1.10	1 OCLOCK	VENCEDE E	D 070640017	1100000	16.4	1 00	Cincle	000		20	1001 100	000	Boothis andors and shain
0.1	1.10-	1.001004	3 34 01 024	C.0001112	0.140000	14.0	1.70	Dipole	0.00		24	1771 100	502	
01	1.10-	0777066	C'C667006	C'66/7017	1.45250	14.7	00.1	aindin	20.2		6.9	1761 070	2002	
1.6	-81.7	440695.8	4601499.5	2184354.8	691857.9	14.5	92.4	Dipole	23.3		4.4	031_1241	198	
11.6	-81.8	433195.2	4605689.3	2159504.4	705180.9	17.1	113.6	Monopole	32.9		3.9	022_1108	195	
11.6	-81.7	440458.0	4601809.2	2183556.9	692860.7	14.3	61.6	Monopole	38.1		3.7	026_1421	193	
11.6	-81.7	440254.4	4601881.0	2182884.7	693084.8	14.8	24.7	Dipole	58.7		3.2	027_1345	192	
11.6	-81.7	440462.2	4601697.5	2183577.0	692494.4	14.2	33.8	Dipole	58.7		3.2	029 0818	192	
11.5	-81.7	444942.3	4598850.4	2198439.6	683405.8	10.4	284.1	Monopole	23.8		4.3	069_1543	189	
11.6	-81.7	439589.8	4602122.5	2180690.2	693839.5	15.0	89.4	Monopole	78.5		2.8	031_1241	172	
11.6	-81.7	439350.5	4602357.1	2179891.6	694595.8	15.2	1.7	Dipole	28.8		3.9	028 1514	171	
11.5	-81.7	444311.0	4598576.4	2196383.5	682470.9	10.1	399.8	Monopole	26.3		4.0	064_1537	168	
11.6	-81.7	440507.3	4601749.5	2183722.0	69,2667.6	14.2	33.6	Dipole	91.4		2.6	027_1405	161	
41.6	-81.7	441457.3	4601107.6	2186875.8	690615.1	13.3	62.1	Dipole	20.6		4.2	030_1057	153	
41.6	-81.8	433286.2	4605796.5	2159796.9	705537.8	17.1	23.4	Monopole	23.5		3.9	027_1247	139	
11.5	-81.7	444230.0	4598809.4	2196104.5	683230.9	11.0	408.8	Monopole	20.2		4.1	081 1703	139	
11.5	-81.7	443992.0	4598895.0	2195318.7	683438.3	11.1	598.8	Monopole	10.8		5.0	061 1414	135	
41.6	-81.7	441960.6	4600899.5	2188539.1	689960.8	13.3	2.4	Monopole	9.6		5.2	028 1554	135	
11.6	-81,8	434038.0	4605228.5	2162296.1	703716.7	16.9	93.1	Monopole	6.99		2.7	031 1141	132	
11.5	-81.7	444233.8	4598623.5	2196127.5	682621.1	10.3	459.8	monopole	39.7		3.2	079 1556	130	
11.5	-81.7	444281.9	4598486.2	2196293.2	682173.3	6.6	454.1	Monopole	37.5		3.2	079 1556	123	
1.5	-81.7	444362.9	4598521.6	2196556.9	687294.1	10.0	366.3	Monopole	20.1		3.9	082 1541	119	
1.6	-81.8	433203.1	4605672.5	2159531.2	705126.2	17.1	118.5	Monopole	30.2		3.4	032 1236	119	
1.6	-81.7	443383.2	4600244.7	2193244.5	687892.8	12.4	126.4	Monopole	7.9		53	056 1138	118	
1.6	-81.7	442478.6	4600498.1	2190261.7	688673.0	12.8	94.6	Monopole	59.6		2.7	031 1301	117	
1.6	-81.7	442759.4	4600314.1	2191193.5	688085.1	12.6	117.9	Dipole	72.3		2.5	032 1116	113	
1.6	-61.8	433389.4	4605568.4	2160148.5	704795.2	17.1	113.6	Monopole	19.0		39	032 1236	113	
1.6	-81.8	433370.9	4605746.0	2160077.7	705377.0	17.1	32.3	Monopole	18.5		3.9	027 1247	110	
11.6	-81.7	439883.5	4602238.9	2181647.3	694238.2	15.0	155.7	Monopole	27.9		3.4	023 0917	110	
41.6	-81.7	440195.5	4602025.0	2182683.3	693654.0	14.9	121.6	Dipole	69.5		2.5	024 1046	109	-
416	-81.8	433746.6	AF05500.6	2161324.5	704593.0	17.0	18	Monopole	5 US		23	028 1 434	109	
	0770-	200000000	- mannan	ALUAURTUN.	10000000	ALMA	0.4	ALCONOCC.			24	- +0+* 070	P Mt	

Table 6 Magnetic Anomalies without Sidescan Sonar Contacts

	1	029 0856	1.1	6,6	Monopole	57.1	15.7	696473.6	2176015.8	4602949.6	438179.6	-81.7	41.6	M 18.
	9	029_0758	1.0	26.6	Dipole	25.1	12.6	688268.9	2191495.0	4600368.5	442852.2	-81.7	41.6	M170
	4	025 0938	1.6	10.2	Dipole	2.68	12.6	688660.6	2191561.7	4600487.5	442874.6	-81.7	41.6	M 10
	n ir	800 620	16	123	Monopole	235.2	13.0	689633.6	2188505.0	46008705	44 1344.Z	2 18-	41.6	TIM
	5	024 1026	1.3	23.9	Dipole	121.7	14.2	691940.0	2185685.7	4601517.5	441101.7	-81.7	41.6	M42
	80	023_0937	1.8	13.3	Monopole	155.9	16.0	697890.6	2174856.6	4603387.4	437833,9	-81.7	41.6	M83
	6	029 0758	1.6	21.4	Monopole	36.2	13.2	689825.9	2188522.8	4600858.5	441954.9	2718-	41.6	M17
	14	025 0958	1.9	20.9	Dipole	88.0	14.9	694409.4	2180859.5	4602295.2	439644.4	-81.7	41.6	IIW
	17	024_1026	2.1	18.4	Dipole	121.3	14.3	692987.5	2183734.9	4601846.9	440512.9	-81.7	41.6	M43
	17	051_0830	3.3	4.8	Monopole	162.2	14.1	690949.2	2185561.0	4601216.3	441058.5	-81.7	41.6	M 204
	17	032_1056	2.3	14.3	Monopole	118.3	12.4	687674.5	2191954.3	4600185.0	44 2989.0	-81.7	41.6	M14.
	18	029 0758	1.5	52.0	Monopole	28.3	13.1	689717.4	2188779.0	4600824.1	442032.4	-81.7	41.6	M171
	18	025 1038	2.5	11.8	Monopole	83.0	14.1	500258.3	2169390.5	4604228.9	441204.0	-818-	41.6	MIL
	20	025_1058	2.1	21.9	Monopole	93.9	16.9	703714.5	2163596.3	4605221.0	434434.1	-81.8	41.6	IIW
	20	025 1018	2.4	14.8	Dipole	89.5	15.6	695974.2	2177960.4	4602787.2	438769.4	-81.7	41.6	MIL
	21	029_0818	1.4	75.1	Dipole	31.7	13.2	689826.1	2188553.6	4600858.4	441964.3	-81.7	41.6	M174
	22	031_1241	1.8	37.0	Dipole	93.6	14.3	692559.4	2183041.8	4601720.1	440299.5	-81.7	41.6	MS
	z	006 1317	22	20.7	Monopole	31.5	17.4	708076.5	2157619.4	4606581.4	432636.2	-81.8	41.6	M87
	24	029 0818	2.4	17.5	Mononole	30.7	13.5	690153.2	2187952.5	4600961.2	441782.9	-81.7	41.6	1176
	97	024 1040	77	32.0	Dipole	212.2	14.9	6.951.34.3	112222549.6	400×0080.1	A30025.A	-112-	41.6	M176
	28	002 1121	2.4	20.2	Monopole	86.5	17.1	706049.9	2159665.0	4605953.2	433248.7	-81.8	41.6	M12I
	32	023_0917	2.9	13.3	Monopole	154.7	14.7	693378.1	2183240.0	4601968.5	440364.2	-81.7	41.6	M79
	34	029 0916	3.1	11.3	Monopole	29.0	16.8	702273.7	2165423.9	4604772.4	434983.3	-81.8	41.6	M 18.
	96	030_1037	4.0	0./ 0.f	Dinole	7 72	0.61	6936/0.5	2180840.2	1.1512004	435037.5	118-	41.6	M 19
	35	065 1528	2.2	32.5	Monopole	6.2	10.3	683225.4	2197496.0	4598800.4	444653.9	-81.7	41.5	M27
	38	033_1602	2.8	17.1	Dipole	147.4	15.0	693725.9	2180499.1	4602088.9	439531.0	-81.7	41.6	M93
	39	023 0917	2.9	15.9	Monopole	144.0	14.5	692597.7	2184617.0	4601723.5	440779.6	-81.7	41.6	M78
	41	028 1434	2.9	17.0	Monopole	2.7	17.1	705205.9	2160190.3	4605693.3	433404.3	-81.8	41.6	M51
Possible anchor and chain	42	025_1018	2.6	23.9	Monopole	89.2	15.6	695797.6	2178286.1	4602731.7	438867.7	-81.7	41.6	M11:
	42	058_1452	3.0	15.6	Monopole	398.0	11.6	684987.6	2194996.6	4599350.4	443901.7	-81.7	41.5	M18
	Cb Cb	002 1121	3.0	22.3	Monopole	5,68	17.3	707073.8	2158892.3	4606269.2	433018.7	818-	41.6	M 121
	46	033_1622	2.4	33.5	Dipole	156.5	14.6	692873.3	2182022.1	4601821.1	439990.5	-81.7	41.6	96 M
	47	005_1408	3.6	10.1	Monopole	1.5	17.2	706163.8	2159225.4	4605990.2	433115.4	-81.8	41.6	M48
	64	027 1405	2.6	28.0	Dipole	26.2	14.2	692708.4	2183594.6	4601762.6	440468.7	-81.7	41.6	M 161
	50	025_0958	1.8	85.5	monopole	8,88	15.0	694093.0	2181453.5	4602195.7	439823.7	-81.7	41.6	M 10:
	50	033_1622	3.0	18.6	Dipole	152.7	14.8	692749.4	2182278.6	4601782.0	440068.0	-81.7	41.6	M96
	51	023 0857	2.8	23.2	Dipole	153.4	12.4	688362.1	2192558.8	4600391.3	443176.8	-81.7	41.6	M74
	25	030_1037	9.6	2.11	Monopole	3110	2.01	0.400450	21/9004.4	C.U253U24	6.052250.6	/19-	41.0	N 18
	55	033_1602	3.2	16.7	Dipole	153.9	15.1	693555.7	2180770.9	4602035.6	439612.9	-81.7	41.6	M94
	57	023_0917	2.3	47.1	Monopole	153.9	14.2	692062.1	2185681.9	4601554.7	441101.2	-81.7	41.6	M77
	29	023 0917	3.2	18.0	Monopole	153.9	14.8	693522,4	2182966.1	4602013.9	440281.5	-81.7	41.6	M80
Possible anchor and chain	64	030 1037	38	11.6	Monopole	35.8	15.4	695436.7 6936.41.1	2177952.9	4602623.5 4602056 9	438764.3 439885 9	-81.7	41.6	M18 M56
	64	074_1516	2.8	29.2	Dipole	594.9	11.3	683736.3	2195149.8	4598968.4	443941.8	-81.7	41.5	M20
	64	024_1026	3.5	15.0	Monopole	128.3	13.1	690967.3	2187540.0	4601211.4	441661.5	-81.7	41.6	M41
	64	083 1615	3.1	21.6	Monopole	335.5	10.2	682676.8	2196538.2	4598638.3	444359.2	-81.7	41.5	M 13
	0/	1458	9.4	5.2 2.0	Monopole	1.001	13.5	7055.29.1	218/200.1	4600350.0	441/08.3	-818	41.6	W80
	71	030 1037	4.0	11.1	Monopole	64.5	15.6	696976.8	2175028.6	4603108.1	437881.5	-81.7	41.6	M181
	74	033_1622	2.1	79.4	Monopole	145.0	14.3	692370.9	2183036.2	4601662.7	440296.8	-81.7	41.6	M 99
	80	031 1301	31	26.7	Dipole	93.9	13.2	689627.8	2188491.4	4600798.3	441944.3	2718-	41.6	M9
	8	028_1554	4.4	9.7	Monopole	0.8	12.6	687677.7	2192763.0	4600181.7	443235.4	-81.7	41.6	M61
	87	079_1556	2.9	35.6	Dipole	434.9	9.8	681925.7	2196440.2	4598410.0	444325.4	-81.7	41.5	M 128
	87	029_0758	4.3	11.0	Monopole	7.62	12.5	688176.8	2191634.4	4600339.7	442894.2	-81.7	41.6	M 165
	75	028 JD14	2,44	43.4	Monopole	1.0	15.3	694645 8	2179105.2	C 1022004	433403.8 439138 9	2 18-	41.0	NON CIN
	8	024_1046	2.0	122.2	Monopole	121.6	15.3	694886.8	2180204.6	4602444.1	439447.4	-81.7	41.6	M47
	103	030_1057	4.2	13.9	Monopole	61.2	13.3	690592.6	2186923.8	4601100.5	441471.8	-81.7	41.6	M194
	101	050 0899	5.5	20.42	Dinde	136.2	14.5	697582.2	2184591.7	4501718.9	444150.0	218-	9.15	A120FM
	108	030_1057	4.0	16.8	Monopole	58.1	13.1	689596.3	2188797.9	4600787.1	442037.5	-81.7	41.6	M 19
	108	033_1622	2.9	44.1	Monopole	161.0	14.7	692560.4	2182572.7	4601722.9	440156.6	-81.7	41.6	M97

The 140 individual magnetic anomalies tell us relatively little of their origin because they are buried or finely distributed over the lake bottom and have no other associated remote sensing data with which to compare. The mass of these anomalies was estimated and tabulated in Table 3 and Table 6, but it does not indicate the anomaly's size because it may be a solid, hollow, or widely distributed object or objects. The spatial location of these anomalies was analyzed from the CSR vessel trackline charts and only one grouping of anomalies stood out as a possible manmade source and is analyzed below. All of the remaining anomalies were determined to be point sources because they were not detectable across multiple tracklines except for that one grouping. The individual point sources may be individual objects or buried slag or mill tailings that have been dumped and become covered over the years. The polarity of the anomaly can infer the objects orientation, but not its possible origin, and becomes irrelevant to the analysis. The last piece of information about the anomaly is the width, which can infer the size of the object be it long and skinny or short and fat, but it also is of little value in determining a buried object's origin.



There were a number of contacts that may indicate the presence of a linear ferrous feature

Figure 35). This feature could not be identified from the sidescan or sub-bottom profiler data acquired over this area. An analysis of the magnetic data shows that these contacts are most likely buried steel or iron buoy blocks or anchors.

This identification of these anomalies as an anchor and chain is inferred from the anomalies' masses and their spatial location to each other. M148's mass was estimated to be 4044 kg which is equivalent to a 10,000 pound standard anchor size that is normally found on many barges. The anomalies are in an approximate straight line running about 250 meters (820 ft). This length is comparable to 9 shots of anchor chain that is corresponds to 247 meters (810 ft) with one shot of chain equaling 15 fathoms (27.5 meters, 90 ft). The remaining masses of the anomalies are consistent with the density of anchor chain or cable used with a 10,000 pound anchor. It is possible that the anchor and chain were lost from a barge during a storm, became fouled and cast loose, as well as many other possible scenarios.



Figure 35 Possible Anchor and Chain (CSR)

The analysis of the 140 magnetic anomalies with no associated sidescan sonar contacts yielded no objects of historical significance, although several possible manmade contacts were found, they are disarticulated with no archaeological context, thus do not represent potentially significant historical resources.
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