EXPLORATION ID STATION / OFFSET: 898+38, 7' RT. PROJECT: GAL-141-17.00 DRILLING FIRM / OPERATOR: ODOT / CAREY DRILL RIG: CME 850R TRACKED B-001-0-12 TYPE: LANDSLIDE SAMPLING FIRM / LOGGER: ODOT / LEWIS HAMMER: CME AUTOMATIC ALIGNMENT: **CL SR 141 PAGE** CALIBRATION DATE: PID: 92740 SFN: DRILLING METHOD: 3.25" HSA / NQ2 5/10/11 ELEVATION: 658.4 (MSL) EOB: 41.5 ft. 1 OF 2 START: 9/11/12 END: 9/11/12 SAMPLING METHOD: SPT / NQ2 **ENERGY RATIO (%):** 88.4 LAT / LONG: 38.800345, -82.301011 ELEV. ΗP **GRADATION (%) ATTERBERG** MATERIAL DESCRIPTION SPT/ REC SAMPLE ABAN-ODOT **DEPTHS** N_{60} CLASS (GI) RQD DONED **AND NOTES** (%) ID (tsf) GR CS FS SI CL LL PL Ы WC 658.4 36" ASPHALT (DRILLERS DESCRIPTION) 2 17 SS-1 4.00 655.4 3 STIFF TO VERY STIFF, REDDISH BROWN WITH 2 22 SS-2 1.50 A-6b (V) 23 BROWN. SILTY CLAY, LITTLE SAND, TRACE STONE FRAGMENTS, MOIST 5 @ 4.5'; REDDISH BROWN WITH BROWN AND GRAY 12 89 SS-3 9 5 38 42 40 3 2.50 6 21 19 22 A-6b (12) 652.4 6 STIFF, REDDISH BROWN WITH BROWN AND GRAY, 32 3 12 56 SS-4 2.00 3 7 9 49 41 20 21 19 A-7-6 (13) CLAY, SOME SILT, LITTLE SAND, TRACE STONE 650.9 FRAGMENTS, DAMP 8 STIFF. REDDISH BROWN WITH BROWN. SILTY CLAY. 2 9 SS-5 33 2.00 A-6b (V) LITTLE STONE FRAGMENTS, LITTLE SAND, DAMP TO 9 13 SS-6 @ 9' TO 10.5'; AUGER SAMPLE SAMPLE TAKEN DUE TO 0 22 A-6b (V) NO RECOVERY 15 67 SS-7 2.00 20 10 9 30 31 40 22 18 23 A-6b (8) 12 @ 12' TO 13.5'; REDDISH BROWN WITH BROWN AND 3 13 78 SS-8 2.00 8 6 8 35 43 40 23 17 18 A-6b (11) DARK GRAY, TRACE STONE FRAGMENTS, TRACE 13 644.9 ROOTS, MODERATELY ORGANIC (LOI = 6.0%) 14 STIFF. REDDISH BROWN WITH BROWN AND GRAY. 13 67 SS-9 2.00 A-7-6 (V) CLAY, SOME SILT, LITTLE STONE FRAGMENTS, LITTLE 15 SAND. DAMP 3 12 100 SS-10 1.50 19 10 5 21 45 44 23 21 22 A-7-6 (11) 16 641.4 1.50 A-7-6 (V) SS-11A 17 13 4 100 STIFF TO VERY STIFF. REDDISH BROWN WITH SS-11B 1.50 20 A-6b (V) BROWN, SILTY CLAY, SOME STONE FRAGMENTS. 18 LITTLE SAND. DAMP 12 100 SS-12 1.50 21 7 33 35 40 3 4 24 16 18 A-6b (9) 19 @ 19.5': BROWN WITH REDDISH BROWN AND GRAY. 20 13 100 SS-13 1.50 25 5 4 30 36 40 22 18 21 A-6b (9) TRACE SAND 21 19 100 SS-14 2.50 6 A-6b (V) 22 635.9 VERY STIFF. REDDISH BROWN, CLAY, SOME SILT. 23 24 6 100 SS-15 3.00 A-7-6 (V) LITTLE SAND, TRACE STONE FRAGMENTS, DAMP 10 24 22 24 100 SS-16 3.00 7 9 6 33 45 43 21 21 A-7-6 (13) 25 26 28 100 SS-17 8 3.50 18 A-7-6 (V) 631.4 27 VERY STIFF, REDDISH BROWN, SILTY CLAY, SOME 8 28 100 SS-18 3.50 18 A-6b (V) SAND, TRACE STONE FRAGMENTS, DAMP TO MOIST 28 29 6 21 89 SS-19 2.25 9 6 15 32 38 37 19 18 20 A-6b (10)

074100																								
ζ.	PID: <u>92740</u>	: <u>92740</u> SFN: PROJECT: <u>GAL-1</u>				11-17.00	s	STATION / OFFSET:		ET: _	898+38, 7' RT.		S		RT: <u>9/11/12</u>		_	ND: _				G 2 OI	F 2 B-00	01-0-12
1	MATERIAL DESCRIPTION				ELEV.	DEP	THS	SPT/	N ₆₀		SAMPLE		GRADATION				ATTERB		_		ODOT CLASS (CI)	ABAN-		
		AND NOTES			628.4			RQD 4		(%)	ID	(tsf)		CS	FS	SI	CL	LL	PL	PI	WC	CLASS (GI)	DONED	
2		ILTSTONE, YELLOWISH BROWN, SEVERLY //EATHERED, WEAK.			627.4 TR		31	11 54	96	100	SS-20A			-	-	-	-	-	-	-	17	A-6b (V)		
ż					626.9			54		+	SS-20B	-	-	-	-	-	-	-	-	-	9	Rock (V)		
ביים	SILTSTONE, M MODERATELY THIN BEDDED	SILTSTONE, MEDIUM GRAY, SLIGHTLY TO MODERATELY WEATHERED, MODERATELY STRONG, THIN BEDDED, ARENACEOUS, MODERATELY FRACTURED TO FRACTURED.: RQD 97%, REC 69%.						- 32 - - 33 - - 34 -																
יייייייייייייייייייייייייייייייייייייי	SANDSTONE, I WEATHERED, GRAINED, THI	EATHERED, MODERATELY STRONG, VERY FINE RAINED, THICK BEDDED, ARGILLACEOUS, SLIGHTLY RACTURED; RQD 100%, REC 100%.				623.3		35 36 37	89		99	NQ2-1											CORE	
ONEINGICANDIAGO	_	@37.9'; HIGH ANGLE FRACTURE. @ 40.3 TO 40.7; SILTSTONE LAYER						- 38 - - 39 - - 40 - - 41 -																
CONEDRIVE CONEDRIVE - DATA					[•·•·• <u>•</u>	616.9	—ЕОВ -	7.																

EXPLORATION ID STATION / OFFSET: 899+70, 27' RT. PROJECT: GAL-141-17.00 DRILLING FIRM / OPERATOR: ODOT / PROCTOR DRILL RIG: CME 850R TRACKED B-002-0-12 TYPE: LANDSLIDE SAMPLING FIRM / LOGGER: ODOT / LEWIS HAMMER: CME AUTOMATIC ALIGNMENT: **CL SR 141 PAGE** PID: 92740 SFN: DRILLING METHOD: 3.25" HSA / NQ2 CALIBRATION DATE: 5/10/11 ELEVATION: 658.3 (MSL) EOB: 16.0 ft. 1 OF 1 START: 8/30/12 END: 8/30/12 SAMPLING METHOD: SPT / NQ2 **ENERGY RATIO (%):** 88.4 LAT / LONG: 38.800541, -82.300607 ELEV. ΗP **GRADATION (%)** ATTERBERG MATERIAL DESCRIPTION SPT/ REC SAMPLE ABAN-ODOT **DEPTHS** N_{60} RQD CLASS (GI) DONED **AND NOTES** (%) ID (tsf) GR CS FS SI CL LL PL PΙ WC 658.3 6" TOPSOIL (DRILLERS DESCRIPTION 657.8 12" BROWN CLAY (DRILLERS DESCRIPTION) 1 656.8 656.3 SS-1A 6" ASPHALT IN TOP OF SPOON (DRILLERS 2 5 13 89 \DESCRIPTION) SS-1B 2.00 19 A-6b (V) 3 STIFF TO VERY STIFF, BROWN, SILTY CLAY, "AND" STONE FRAGMENTS, LITTLE SAND, DAMP 3 9 44 SS-2 1.50 49 8 5 18 20 40 24 16 12 A-6b (2) @ 4.5'; BROWN WITH REDDISH BROWN, SOME STONE 5 13 8 3 29 40 23 67 SS-3 3.00 31 29 17 16 A-6b (7) FRAGMENTS 652.3 6 VERY STIFF TO HARD, BROWN WITH GRAY, CLAY, 15 100 SS-4 2.50 25 7 6 21 41 46 23 23 4 16 A-7-6 (11) SOME STONE FRAGMENTS, LITTLE SAND, DAMP @ 7.5'; ORANGISH BROWN WITH BROWN AND GRAY, NO 8 27 SS-5 8 100 4.00 A-7-6 (V) STONE FRAGMENTS 10 9 @ 9'; BROWN WITH GRAY AND ORANGISH BROWN 12 38 100 0 5 25 SS-6 4.50 9 38 48 41 16 22 A-7-6 (11) 13 43 100 SS-7 4.50 21 A-7-6 (V) 16 12 @ 12'; TRACE SAND 5 25 78 SS-8 3.50 0 3 2 36 59 43 25 18 21 A-7-6 (12) 13 @ 13.5': BROWN WITH GRAY, TRACE STONE 43 12 100 SS-9 4.50 5 0 1 36 58 42 23 19 A-7-6 (12) 19 FRAGMENTS 15 642.8 10 A-7-6 (V) Rock (V) 67 642.3 55 SANDSTONE, GRAY, HIGHLY WEATHERED, WEAK TO EOB-SLIGHTLY STRONG, VERY FINE GRAINED

NOTES: NONE

ABANDONMENT METHODS, MATERIALS, QUANTITIES: NOT RECORDED

EXPLORATION ID PROJECT: GAL-141-17.00 DRILLING FIRM / OPERATOR: ODOT / PROCTOR DRILL RIG: CME 850R TRACKED STATION / OFFSET: 899+75, 15' RT. B-002-1-12 TYPE: LANDSLIDE SAMPLING FIRM / LOGGER: ODOT / LEWIS HAMMER: CME AUTOMATIC ALIGNMENT: **CL SR 141 PAGE** 43.5 ft. PID: 92740 SFN: DRILLING METHOD: 3.25" HSA / NQ2 CALIBRATION DATE: 5/10/11 ELEVATION: 657.0 (MSL) EOB: 1 OF 2 START: 9/4/12 END: 9/5/12 SAMPLING METHOD: SPT / NQ2 **ENERGY RATIO (%):** 88.4 LAT / LONG: 38.800434, -82.300545 MATERIAL DESCRIPTION ELEV. ΗP **GRADATION (%) ATTERBERG** SPT/ REC SAMPLE ABAN-ODOT **DEPTHS** N_{60} CLASS (GI) RQD DONED AND NOTES (%) ID (tsf) GR CS FS SI CL LL PL Ы WC 657.0 18" BROWN AND RED CLAY WITH ASPHALT AND STONE FRAGMENTS (FILL) 655.5 FILL CONSISTING OF COLD PATCH ASPHALT WITH 2 2 13 56 SS-1 STONE FRAGMENTS AND BROWN CLAY 3 37 72 78 SS-2 652.5 STIFF, REDDISH BROWN WITH GRAY AND BROWN, 5 2 6 33 SS-3 2.00 20 A-6b (V) SILTY CLAY, LITTLE STONE FRAGMENTS, LITTLE SAND, MOIST 6 7 27 38 2 6 56 SS-4 1.50 19 9 35 19 16 21 A-6b (8) 8 2 6 67 SS-5 1.50 20 A-6b (V) 9 3 10 89 SS-6 2.00 21 A-6b (V) 646.5 STIFF. REDDISH BROWN. CLAY. SOME SILT. LITTLE 9 3 28 SS-7 2.00 12 3 3 25 57 49 20 29 21 A-7-6 (17) STONE FRAGMENTS, TRACE SAND, MOIST 645.0 12 VERY STIFF, REDDISH BROWN WITH BROWN, SILTY 3 12 78 SS-8 2.50 22 A-6b (V) **CLAY. LITTLE SAND. LITTLE STONE FRAGMENTS.** 13 DAMP TO MOIST 14 16 5 78 SS-9 3.00 20 A-6b (V) 15 5 15 89 SS-10 3.00 12 7 8 33 40 36 20 16 20 A-6b (10) 16 19 89 SS-11 3.00 6 23 A-6b (V) 18 SS-12A 2.00 638.2 _ 21 A-6b (V) 13 100 19 VERY STIFF, BROWN AND GRAY, CLAY, SOME SILT, SS-12B 2.00 A-7-6 (V) TRACE STONE FRAGMENTS, TRACE SAND, DAMP 20 15 5 100 SS-13 2.50 20 A-7-6 (V) 21 22 100 SS-14 2.50 8 3 23 62 50 25 25 4 23 A-7-6 (16) 22 @ 22.5': BROWN WITH REDDISH BROWN, LITTLE STONE 633.8 SS-15A 2.50 15 5 5 25 50 43 21 22 A-7-6 (13) 100 23 TR-55 SS-15B FRAGMENTS 4 Rock (V) -24 **SANDSTONE.** BROWNISH GRAY WITH YELLOWISH BROWN, HIGHLY WEATHERED, WEAK TO SLIGHTLY 25 STRONG, VERY FINE GRAINED, VERY THIN BEDDED. FERRIFEROUS, CALCAREOUS, HIGHLY FRACTURED 26 WITH IRON STAINING. @25.9'; STRONG. 27 28 4 15 NQ2-1 CORE 628.0 29

PG 2 OF 2

WC

9/5/12

LL PL

PΙ

B-002-1-12

ODOT

CLASS (GI)

CORE

ABAN-

DONED

EXPLORATION ID GAL-141-17.00 PROJECT: DRILLING FIRM / OPERATOR: ODOT / PROCTOR DRILL RIG: CME 850R TRACKED STATION / OFFSET: 899+74, 54' RT. B-002-2-12 ODOT / LEWIS TYPE: LANDSLIDE SAMPLING FIRM / LOGGER: HAMMER: CME AUTOMATIC ALIGNMENT: **CL SR 141 PAGE** PID: 92740 SFN: DRILLING METHOD: 3.25" HSA / NQ2 CALIBRATION DATE: 5/10/11 ELEVATION: 642.0 (MSL) EOB: 1 OF 1 START: 8/29/12 END: 8/29/12 SAMPLING METHOD: SPT / NQ2 **ENERGY RATIO (%):** 88.4 LAT / LONG: 38.800330, -82.300508 ELEV. ΗP **GRADATION (%) ATTERBERG** MATERIAL DESCRIPTION SPT/ REC SAMPLE ABAN-ODOT **DEPTHS** N_{60} RQD CLASS (GI) **AND NOTES** DONED (%) ID (tsf) GR CS FS SI CL LL PL Ы WC 642.0 18" BROWN CLAY (DRILLERS DESCRIPTION) 640.5 STIFF TO VERY STIFF, REDDISH BROWN WITH GRAY. 2 2 33 SS-1 1.50 A-7-6 (V) 22 CLAY, SOME SILT, LITTLE TO SOME STONE FRAGMENTS, TRACE SAND, MOIST 3 2 7 78 SS-2 1.50 16 4 5 27 48 41 19 22 29 A-7-6 (13) @ 4.5' TO 6'; REDDISH BROWN, TRACE ROOTS 5 9 2 78 SS-3 1.25 21 4 6 28 41 41 18 23 20 A-7-6 (12) 6 @ 6'; REDDISH BROWN AND GRAY 3 7 100 SS-4 1.50 18 3 6 29 41 20 21 44 27 A-7-6 (12) @ 7.5'; REDDISH BROWN 8 2 9 SS-5 100 2.50 A-7-6 (V) 9 100 SS-6 5 21 21 4 15 2.25 16 4 54 44 23 28 A-7-6 (14) @ 10.5': BROWN AND GRAY, "AND" STONE FRAGMENTS. LITTLE SILT, DAMP 92 ST-7 3.50 36 5 3 10 46 56 23 33 21 A-7-6 (14) @ 11'; Qu = 1.18 TSF @ 6.7% STRAIN, γ = 124.72 PCF 12 @ 12.5': GRAYISH BROWN 13 3 16 100 SS-8 2.00 19 A-7-6 (V) 628.0 14 STIFF. REDDISH BROWN. STONE FRAGMENTS WITH 3 10 100 SS-9 1.00 37 21 14 14 14 28 20 8 A-2-4 (0) 16 SAND AND SILT, LITTLE CLAY, DAMP 15 626.5 10 VERY STIFF TO HARD, LIGHT BROWN, SANDY SILT, 16 69 20 17 100 SS-10 3.00 16 19 11 33 21 30 10 14 A-4a (4) SOME CLAY, LITTLE STONE FRAGMENTS, DAMP 17 @ 17'; DRY SS-11A 4.50 9 A-4a (V) 624.0 66 100 18 623.5 SS-11B 8 Rock (V) SANDSTONE, MEDIUM DARK GRAY, HIGHLY WEATHERED, MODERATELY STRONG, VERY FINE TO 19 FINE GRAINED. 20 **SANDSTONE. MEDIUM DARK GRAY. WEATHERED.** MODERATELY STRONG, VERY FINE TO FINE GRAIN 21 (DRILLERS DESCRIPTION). 22 23 NQ2-1 24 25 26 27 28 613.5 EOB

NOTES: NONE

EXPLORATION ID PROJECT: GAL-141-17.00 DRILLING FIRM / OPERATOR: ODOT / PROCTOR DRILL RIG: CME 850R TRACKED STATION / OFFSET: 899+74, 52' RT. B-002-3-12 CME AUTOMATIC TYPE: LANDSLIDE SAMPLING FIRM / LOGGER: ODOT / LEWIS HAMMER: **CL SR 141** ALIGNMENT: PAGE PID: 92740 SFN: CALIBRATION DATE: 5/10/11 DRILLING METHOD: 3.25" HSA / NQ2 ELEVATION: 642.1 (MSL) EOB: 1 OF 1 START: 8/29/12 END: SAMPLING METHOD: SPT / NQ2 **ENERGY RATIO (%):** LAT / LONG: 38.800338, -82.300509 8/29/12 88.4 **MATERIAL DESCRIPTION** ELEV. REC SAMPLE HP **GRADATION (%)** ATTERBERG SPT/ ABAN-ODOT **DEPTHS** N_{60} RQD CLASS (GI) DONED (%) ID GR CS FS SI CL LL PL PΙ WC **AND NOTES** (tsf) 642.1 REDDISH BROWN, CLAY 2 3 5 6 8 9 10 · 11 12 - 13 628.1 - 14 REDDISH BROWN, GRAVEL WITH SAND AND SILT 15 626.6 LIGHT BROWN, SANDY SILT - 16 624.1 18 623.6 SANDSTONE, MEDIUM DARK GRAY, HIGHLY EOB WEATHERED, MODERATELY STRONG, VERY FINE TO FINE GRAINED. NOTES: NONE ABANDONMENT METHODS, MATERIALS, QUANTITIES: NOT RECORDED

EXPLORATION ID PROJECT: GAL-141-17.00 DRILLING FIRM / OPERATOR: ODOT / PROCTOR DRILL RIG: CME 850R TRACKED STATION / OFFSET: 900+81, 5' RT. B-003-0-12 **CL SR 141** TYPE: LANDSLIDE SAMPLING FIRM / LOGGER: ODOT / LEWIS HAMMER: CME AUTOMATIC ALIGNMENT: **PAGE** PID: 92740 SFN: DRILLING METHOD: 3.25" HSA / NQ2 CALIBRATION DATE: 5/10/11 ELEVATION: 657.5 (MSL) EOB: 32.5 ft. 1 OF 2 SAMPLING METHOD: SPT / NQ2 **ENERGY RATIO (%):** START: 9/5/12 END: 9/6/12 88.4 LAT / LONG: 38.800549, -82.300200 **MATERIAL DESCRIPTION** ELEV. REC SAMPLE ΗP **GRADATION (%)** ATTERBERG SPT/ ABAN-ODOT **DEPTHS** N_{60} CLASS (GI) RQD DONED (%) CS | FS | **AND NOTES** ID (tsf) GR SI CL LL PL PΙ WC 657.5 36" ASPHALT (DRILLERS DESCRIPTION) 1 2 3 10 22 SS-1 0.00 654.5 3 STIFF TO VERY STIFF, REDDISH BROWN WITH 2 10 67 SS-2 2.00 16 6 6 26 46 41 20 21 20 A-7-6 (12) BROWN, CLAY, SOME SILT, LITTLE SAND, TRACE TO LITTLE STONE FRAGMENTS 5 2 10 78 SS-3 2.00 24 A-7-6 (V) 6 @ 6' TO 7.5'; REDDISH BROWN WITH BROWN AND DARK 5 16 100 SS-4 2.50 9 9 11 31 40 41 21 20 19 A-7-6 (11) GRAY, MODERATELY ORGANIC (LOI = 9.1%) 8 16 100 SS-5 3.00 A-7-6 (V) 4 9 5 7 32 20 3 13 100 SS-6 3.00 6 50 41 21 19 A-7-6 (13) A-7-6 (V) 4 13 100 SS-7 2.50 20 12 3 13 100 SS-8 2.00 8 5 6 33 48 44 22 22 22 A-7-6 (14) 13 5 21 100 SS-9 3.50 A-7-6 (V) @ 14.2'; BROWN AND GRAY, TRACE SAND, NO STONE 15 **FRAGMENTS** 10 37 100 SS-10 4.50 0 4 3 35 58 46 24 22 20 A-7-6 (14) 16 641.0 15 **CLAYSTONE**, LIGHT BROWN, THICK BEDDED. 0 85 SS-11 24 100 12 Rock (V) 18 16 84 100 SS-12 26 12 Rock (V) 19 31 20 106 SS-13 34 100 12 Rock (V) 21 136 100 SS-14 12 Rock (V) 22 635.0 SANDSTONE. BROWNISH GRAY WITH YELLOWISH 23 BROWN, HIGHLY WEATHERED, WEAK TO SLIGHTLY STRONG, VERY FINE GRAINED, VERY THIN BEDDED. 24 FERRIFEROUS, CALCAREOUS, HIGHLY FRACTURED WITH IRON STAINING; RQD 13%, REC 82%. 25 26 27 20 89 NQ2-1 CORE 28 629.0 29