GSI Engineering

DRILLING ACTIVITIES REPORT

BUREAU OF
ENVIRONMENTAL REMEDIATION

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Former Coastal Mart 7301
10330 West Central
Wichita, Kansas

U2-087-13357

Prepared for:

Kansas Department of Health and Environment
Bureau of Environmental Remediation
Underground Storage Tank Program

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1.0 SITE SUMMARY

1.1 General Information

The Former Coastal Mart Site (Site) is located at the northwest corner of North Maize and West Central in Wichita, Kansas. The Kansas Department of Health and Environment (KDHE) notified GSI Engineering LLC (GSI) of a need for emergency monitoring well installation and sampling due to groundwater contamination. The primary purpose of this effort was to help determine the general extent of groundwater contaminated by petroleum-related products.

The Site property was a former service station. No known underground storage tanks (USTs) remain on site. The Site is currently owned by Liberty Place Investment, LLC.

On October 17, 2016, KDHE approved a Work Plan for the Site and GSI was approved to proceed with drilling activities at the referenced location. A total of eight (8) monitoring wells were installed, although ten (10) were originally scheduled. The two additional monitoring wells were not competed as planned due to the inability to access private property and presence of utility restrictions in available easements. Groundwater samples were collected from the newly installed monitoring wells and analyzed for total petroleum hydrocarbons low-range (LRH), mid-range (MRH) and high-range (HRH) to assist in determining the extent of contamination. The initial on-site work was completed by GSI staff on October 28, 2016. These activities and the results are summarized in this Report.

1.2 Regional Geology

The Site is located within the Central Lowland in the Arkansas River Lowlands. Local alluvial deposits consisted of approximately 100 feet of unconsolidated silts, sands, and gravels from the Ogallala Formation in the Arkansas River valley and are of Pliocene age. The underlying bedrock is the Wellington Formation of the Permian age.

Based on on-site observations, the topography of the Site is sloping moderately to the south at an approximate elevation of 1,340 feet above mean sea level. The Cowskin Creek is the closest surface flow, located approximately 1,200 feet to the west of the Site. GSI did not observe any standing water on the property. There are fifteen small water bodies (small commercial lakes)

within a one-mile radius of the Site. These water bodies surround the Site with the closest lake approximately 800 feet to the southwest of the Site. The static depth to groundwater recorded during the Limited Site Assessment (LSA) at the Site ranged from 11.40 to 31.96 feet below ground surface (bgs). Groundwater flow is southeast in both the upper and lower aquifer. The hydraulic gradient was calculated perpendicular to flow using monitoring well sets MW-9 and MW-13. The deep aquifer gradient was calculated at approximately 1.49×10^{-3} as displayed in Figure 3.1. The shallow aquifer gradient was calculated at approximately 9.24×10^{-3} as displayed in Figure 3.2

The Kansas Geological Survey Water Well (WWC-5) database was reviewed to identify existing wells located within a 0.25 mile radius of the Site. The database review indicated ten (10) monitoring wells, fifteen (15) irrigation wells, four (4) dewatering wells, four (4) domestic wells, and one (1) air conditioning well.

The City of Wichita obtains part of its water supply from Cheney Reservoir located approximately 20 miles west of town and the remaining water from a well field located northwest of Wichita.

1.3 Land Use

Zoning information was obtained from the Sedgwick County Parcel and GIS Web site. Currently, the area within a 0.25-mile radius of the Site consists of commercial/industrial and residential properties. The target property and the majority of properties within the 0.25-mile search radius are classified as commercial/industrial districts.

The Site is located in the western portion of Wichita, Kansas. Properties located in the vicinity are commercial, predominantly food service and other service-sector businesses. Future use of the property is projected to remain commercial/industrial based upon zoning and current development.

The Site is currently an occupied lot with one multiple-occupant structure present. The Site is covered predominantly with concrete, and the remainder is landscaped grasses. Soil has not been evaluated within this area and therefore based upon this information, the dermal exposure routes for all current on-site and off-site pathways are considered incomplete. Because soil

contamination was not evaluated during the drilling of these monitoring wells, the future on-site pathway for dermal exposure could not be sufficiently determined from these field activities. Free phase product was not confirmed during these drilling activities. The inhalation pathway should be considered complete for both present and future commercial worker scenarios and future construction scenarios based on the fact the surface of the Site is concrete and GSI did not encounter any visual observations or readings on the Photoionization detector (mini-RAE/PID).

1.4 Drilling Activities

The location of the Site is 10330 W. Central, Wichita, Kansas. GSI personnel conducted drilling activities and monitoring well installation using a CME 55 truck-mounted rig equipped with 4.25" hollow-stem augers from October 18 to October 25, 2016. Monitoring wells were constructed in accordance with the applicable State of Kansas regulations using Schedule 40 PVC casing and 0.010 inch slotted screen. All well packs were installed a minimum of two feet above the screened interval with 12-20 environmental silica sand. The well seal was installed in the form of hydrated bentonite granular chips placed on top of the sand pack and grout extending to one foot below ground surface. Well surface protection was installed in the form of seven-inch metal vaults placed in two-by-two foot concrete pads at each well. Well casings were sealed with a plastic and rubber J-plug, and vault lids were secured by two bolts to deter access. Total footage of the drilling activities were 328 feet.

Soil cuttings were logged and classified by an on-site geologist using the Unified Soil Classification System (USCS) system. Physical characteristics described in the field included the color, texture, sorting, staining and odor. Monitoring well registration forms will be completed and submitted to the KDHE.

Investigative derived waste (IDW) generated during the drilling activities included cuttings from the drilling and water from the development (discussed below). There was a total of 225 cubic feet of soil generated during the drilling activities. GSI transported this material via a trailer to a roll-off dumpster temporarily stored at GSI's facility. Final disposal will be determined based on the analytical results. Approximately 270 gallons of water from the development operation is being stored in a tank at GSI's facility, also waiting for analytical results so final disposition can be determined.

1.5 Well Development and Sampling

On October 28, 2016, GSI Engineering initiated on-site development of newly installed monitoring wells and groundwater sampling at the Site. Development was conducted with a target of five well volumes to be purged, with visual screening of groundwater for clarity. In two cases, wells did not produce sufficient water quantity to allow for five full volumes to be purged. MW-10S recharged slowly and was sampled once water cleared sufficiently after surging, purging a total of approximately 12 gallons. MW-9S had exceptionally slow recharge of approximately one gallon per twenty minute purging interval, and was purged of a total of nine gallons prior to sampling. Development and purge volumes are provided in Table 2.4.1. IDW from development was handled as described in Section 1.4.

GSI collected samples from the newly installed monitoring wells with a dedicated bailer and line. GSI maintained laboratory samples consistent with industry practice and applicable EPA analytical methods. Sample containers were labeled with sample-specific identifiers (e.g. sample ID, date, time, etc.) prior to sample collection, sealed, and placed in designated sample coolers for additional screening and/or laboratory submission. All laboratory samples were submitted for testing in laboratory-provided containers, preserved accordingly and issued specific to the analytical methods applied. Groundwater VOC samples were filled to zero headspace. Laboratory samples were maintained on ice and submitted by chain-of-custody within the method-specific holding times.

1.6 Monitoring Well Sampling Results

Please refer to Table 2.4.1 and 2.4.2 for a summary of the analytical results. Nine groundwater samples were collected from four newly installed monitoring well locations. Analytical results revealed petroleum-related contamination in the form of mid-range hydrocarbons (MRH) with concentrations above KDHE Tier II Screening Levels in MW-9S (14800 µg/L). MRH was also detected in monitoring wells MW-9D (280 µg/L) and MW-13S (73 µg/L). High range hydrocarbons (HRH) below KDHE Tier II Screening Levels was detected in eight of the nine collected groundwater samples ranging from 320 micrograms per liter (µg/L) in MW-9S to below laboratory detection limits in MW-9D. Low range hydrocarbons (LRH) were detected above the

KDHE Tier II Screening Levels in monitoring well MW-9S (5100 µg/L). LRH was also detected in monitoring well MW-9D (97 µg/L).

The highest concentration of total BTEX was detected in MW-9S at 1979.0 micrograms per liter (ug/L), located near the former USTs at the site location. Total BTEX was also recorded in monitoring well MW-9D (29.9 µg/L). Naphthalene was detected above the KDHE Tier II Risk Based Standard Level (KRBSL) in monitoring well MW-9S (251 µg/L). Naphthalene was also detected in MW-9D (1.1 µg/L). MtBE was detected in one sample below the KRBSL in MW-9D (1.9). EDB was below laboratory detection limits in all collected groundwater samples. Free phase product was not measured in any of the newly installed monitoring wells.

2.0 TABLES

2.1 SUMMARY OF WORK COMPLETED

2.2 WATER WELL INFORMATION

2.3 SOIL FIELD SCREENING AND LABORATORY RESULTS

2.4.1 GROUNDWATER ANALYTICAL RESULTS

2.4.2 GROUNDWATER POLYCYCLIC AROMATIC HYDROCARBON DATA

2.5 WELL COMPLETION INFORMATION

2.6 WASTE HANDLING RESULTS

TABLE 2.1 SUMMARY OF WORK COMPLETED

1) Total # of plugged borings.	0
2) Total # of monitoring wells completed.	8
3) Total # of groundwater survey probes conducted.	0
4) Total footage drilled.	328
5) Total monitoring well footage.	328
6) Total boring footage plugged.	0
7) Total # of groundwater samples analyzed by laboratory.	9
8) Total # of soil samples analyzed by laboratory.	0
9) Total # of product samples analyzed by laboratory.	0
10) Total # of waste water samples analyzed by laboratory.	1

TABLE 2.2 WATER WELL INFORMATION

Well Owner's Name	No. Wells	Well Location (Public Land Survey)	Well Use	Distance to Plume (ft.)	Location to Plume & Groundwater Flow Direction
Abercombie Energy LLC	1	NW/NW/NW Sec. 20, T27S, R1W	Irrigation	TBD	Onsite
Barkley, Ron	1	NE/NE/NE Sec. 19, T27S, R1W	Domestic	TBD	Up-Gradient
Bottomly	1	NW/NW/NW Sec. 20, T27S, R1W	Irrigation	TBD	Up-Gradient
Cerre, Art	1	NW/NW/NW Sec. 20, T27S, R1W	Irrigation	TBD	Up-Gradient
Coastal Mart, Inc.	10	SW/SW/SW Sec. 17, T27S, R1W	Monitor	TBD	Up-Gradient
Coonrod and Assoc.	4	NE/NE/NE Sec. 19, T27S, R1W	Dewatering	TBD	Cross-Gradient
Dillions	1	NE/NE/NE Sec. 19, T27S, R1W	Irrigation	TBD	Cross-Gradient
Gray, Richard	1	SW/SW/SW Sec. 17, T27S, R1W	Domestic	TBD	Down-Gradient
Hickman, Jim	1	SW/SW/SW Sec. 17, T27S, R1W	Domestic	TBD	Onsite
Linn Homes	1	SW/SW/SW Sec. 17, T27S, R1W	Air Conditioning	TBD	Up-Gradient
Park West Plaza	1	NE/NE/NE Sec. 19, T27S, R1W	Irrigation	TBD	Up-Gradient
Park West Plaza Estates	1	NE/NE/NE Sec. 19, T27S, R1W	Irrigation	TBD	Up-Gradient
Regency Plaza Addition	3	SE/SE/SE Sec. 18, T27S, R1W	Irrigation	TBD	Up-Gradient
Schlageck, Joe	1	SW/SW/SW Sec. 17, T27S, R1W	Irrigation	TBD	Cross-Gradient
Schraeder Brothers	1	SE/SE/SE Sec. 18, T27S, R1W	Irrigation	TBD	Cross-Gradient
Sears, Phil	1	SW/SW/SW Sec. 17, T27S, R1W	Domestic	TBD	Down-Gradient
Timber Grove Lakes	2	SE/SE/SE Sec. 18, T27S, R1W	Irrigation	TBD	Up-Gradient
Truth, Galen	1	SW/SW/SW Sec. 17, T27S, R1W	Irrigation	TBD	Up-Gradient
Zimmerman, Kenneth	1	SW/SW/SW Sec. 17, T27S, R1W	Irrigation	TBD	Up-Gradient

Summary				
Monitoring Wells	10	TBD	<500 feet	TBD
Dewatering wells	4	TBD	500-1000 feet	TBD
Irrigation Wells	15	TBD	1000-1320	TBD
Domestic	4	TBD		34
Air Conditioning	1	TBD		
Total # of wells	34	34		

The Kansas Geological Survey (KGS) database was searched for wells within 0.25 mile radius of the site.
No oil and/or gas wells were found within a 0.5 mile radius of the site.

TABLE 2.3 SOIL FIELD SCREENING RESULTS

Borehole & Monitoring Well ID	Sample Depth (ft. bgs)	Field Screening Results (ppm)	Date Collected	Field Instrument
MW-9S	0-2.5	0.0	10/20/2016	MiniRAE Lite PGM 7300
	2.5-5	0.0	10/20/2016	MiniRAE Lite PGM 7300
	5-7.5	0.0	10/20/2016	MiniRAE Lite PGM 7300
	7.5-10	0.0	10/20/2016	MiniRAE Lite PGM 7300
	10-12.5	0.0	10/20/2016	MiniRAE Lite PGM 7300
	12.5-15	N/A	10/20/2016	MiniRAE Lite PGM 7300
MW-9D	0-2.5	0.0	10/21/2016	MiniRAE Lite PGM 7300
	2.5-5	0.0	10/21/2016	MiniRAE Lite PGM 7300
	5-7.5	0.4	10/21/2016	MiniRAE Lite PGM 7300
	7.5-10	0.8	10/21/2016	MiniRAE Lite PGM 7300
	10-12.5	0.0	10/21/2016	MiniRAE Lite PGM 7300
	12.5-15	16.3	10/21/2016	MiniRAE Lite PGM 7300
	15-17.5	N/A	10/21/2016	MiniRAE Lite PGM 7300
MW-10S	0-2.5	0.0	10/25/2016	MiniRAE Lite PGM 7300
	2.5-5	0.0	10/25/2016	MiniRAE Lite PGM 7300
	5-7.5	0.0	10/25/2016	MiniRAE Lite PGM 7300
	7.5-10	0.0	10/25/2016	MiniRAE Lite PGM 7300
	10-12.5	0.0	10/25/2016	MiniRAE Lite PGM 7300
	12.5-15	0.1	10/25/2016	MiniRAE Lite PGM 7300
	15-17.5	0.0	10/25/2016	MiniRAE Lite PGM 7300
	17.5-20	0.0	10/25/2016	MiniRAE Lite PGM 7300
	20-22.5	0.0	10/25/2016	MiniRAE Lite PGM 7300
	22.5-25	0.0	10/25/2016	MiniRAE Lite PGM 7300
	25-27.5	0.0	10/25/2016	MiniRAE Lite PGM 7300
	27.5-30	N/A	10/25/2016	MiniRAE Lite PGM 7300

TABLE 2.3 SOIL FIELD SCREENING RESULTS

Borehole & Monitoring Well ID	Sample Depth (ft. bgs)	Field Screening Results (ppm)	Date Collected	Field Instrument
MW-10D	0-2.5	0.0	10/25/2016	MiniRAE Lite PGM 7300
	2.5-5	0.0	10/25/2016	MiniRAE Lite PGM 7300
	5-7.5	0.0	10/25/2016	MiniRAE Lite PGM 7300
	7.5-10	0.0	10/25/2016	MiniRAE Lite PGM 7300
	12.5-15	0.0	10/25/2016	MiniRAE Lite PGM 7300
	15-17.5	0.0	10/25/2016	MiniRAE Lite PGM 7300
	17.5-20	0.0	10/25/2016	MiniRAE Lite PGM 7300
	20-22.5	0.0	10/25/2016	MiniRAE Lite PGM 7300
	22.5-25	0.0	10/25/2016	MiniRAE Lite PGM 7300
	25-27.5	0.0	10/25/2016	MiniRAE Lite PGM 7300
	27.5-30	N/A	10/25/2016	MiniRAE Lite PGM 7300
MW-12S	0-2.5	0.0	10/20/2016	MiniRAE Lite PGM 7300
	2.5-5	0.0	10/20/2016	MiniRAE Lite PGM 7300
	5-7.5	0.1	10/20/2016	MiniRAE Lite PGM 7300
	7.5-10	0.0	10/20/2016	MiniRAE Lite PGM 7300
	10-12.5	0.0	10/20/2016	MiniRAE Lite PGM 7300
	12.5-15	0.0	10/20/2016	MiniRAE Lite PGM 7300
	15-17.5	N/A	10/20/2016	MiniRAE Lite PGM 7300
MW-12D	0-2.5	0.0	10/19/2016	MiniRAE Lite PGM 7300
	2.5-5	0.0	10/19/2016	MiniRAE Lite PGM 7300
	5-7.5	0.0	10/19/2016	MiniRAE Lite PGM 7300
	7.5-10	0.0	10/19/2016	MiniRAE Lite PGM 7300
	10-12.5	0.0	10/19/2016	MiniRAE Lite PGM 7300
	12.5-15	0.4	10/19/2016	MiniRAE Lite PGM 7300
	15-17.5	0.0	10/19/2016	MiniRAE Lite PGM 7300
	17.5-20	0.0	10/19/2016	MiniRAE Lite PGM 7300
	20-22.5	0.0	10/19/2016	MiniRAE Lite PGM 7300
	22.5-25	0.0	10/19/2016	MiniRAE Lite PGM 7300
	25-27.5	1.8	10/19/2016	MiniRAE Lite PGM 7300
	27.5-30	0.0	10/19/2016	MiniRAE Lite PGM 7300
	30-32.5	N/A	10/19/2016	MiniRAE Lite PGM 7300

TABLE 2.3 SOIL FIELD SCREENING RESULTS

Borehole & Monitoring Well ID	Sample Depth (ft. bgs)	Field Screening Results (ppm)	Date Collected	Field Instrument
MW-13S	0-2.5	0.0	10/18/2016	MiniRAE Lite PGM 7300
	2.5-5	0.0	10/18/2016	MiniRAE Lite PGM 7300
	5-7.5	0.0	10/18/2016	MiniRAE Lite PGM 7300
	7.5-10	0.0	10/18/2016	MiniRAE Lite PGM 7300
	10-12.5	0.0	10/18/2016	MiniRAE Lite PGM 7300
	12.5-15	0.0	10/18/2016	MiniRAE Lite PGM 7300
	15-17.5	0.0	10/18/2016	MiniRAE Lite PGM 7300
	17.5-20	0.0	10/18/2016	MiniRAE Lite PGM 7300
	20-22.5	0.0	10/18/2016	MiniRAE Lite PGM 7300
	22.5-25	0.0	10/18/2016	MiniRAE Lite PGM 7300
	25-27.5	0.0	10/18/2016	MiniRAE Lite PGM 7300
	27.5-30	0.0	10/18/2016	MiniRAE Lite PGM 7300
	30-32.5	N/A	10/18/2016	MiniRAE Lite PGM 7300
MW-13D	0-2.5	0.0	10/19/2016	MiniRAE Lite PGM 7300
	2.5-5	0.0	10/19/2016	MiniRAE Lite PGM 7300
	5-7.5	0.0	10/19/2016	MiniRAE Lite PGM 7300
	7.5-10	0.0	10/19/2016	MiniRAE Lite PGM 7300
	10-12.5	0.0	10/19/2016	MiniRAE Lite PGM 7300
	12.5-15	0.0	10/19/2016	MiniRAE Lite PGM 7300
	15-17.5	0.0	10/19/2016	MiniRAE Lite PGM 7300
	17.5-20	0.0	10/19/2016	MiniRAE Lite PGM 7300
	20-22.5	0.1	10/19/2016	MiniRAE Lite PGM 7300
	22.5-25	0.0	10/19/2016	MiniRAE Lite PGM 7300
	25-27.5	0.0	10/19/2016	MiniRAE Lite PGM 7300
	27.5-30	N/A	10/19/2016	MiniRAE Lite PGM 7300

Table 2.4.1

Groundwater Analytical Data

Monitoring Well	Date	Total BTEX	Benzene	Toluene	Ethylbenzene	Xylenes	1,2-DCA	Naphthalene	MtBE	EDB	LRH	MRH	HRH	Develop/ Purge Volume (gallons)	EPA Test Method
RSK Levels - Non-Residential*			*5*	*1000*	*700*	*10000*	*5*	*2.11*	*262*	*0.05*	*950*	*400*	*2500*		
RSK Levels - Residential*			*5*	*1000*	*700*	*10000*	*5*	*1.11*	*133*	*0.05*	*350*	*150*	*1000*		
MW-9S	10/28/16	1979.0	ND (25)	ND (25)	**909** (25)	1070 (75)	ND (25)	**251** (250)	ND (25)	ND (0.03)	**5100** (250)	**14800** (60)	320 (80)	15.0	8260/8011/ 8015C
MW-9D	10/28/16	29.9	ND (1.0)	ND (1.0)	15.9 (1.0)	14.0 (3.0)	ND (1.0)	1.1 (10)	1.9 (1.0)	ND (0.03)	94 (50)	280 (60)	ND (80)	56.0	8260/8011/ 8015C
MW-10S	10/28/16	ND	ND (1.0)	ND (1.0)	ND (1.0)	ND (3.0)	ND (1.0)	ND (10)	ND (1.0)	ND (0.03)	ND (50)	ND (62)	110 (83)	12.0	8260/8011/ 8015C
MW-10D	10/28/16	ND	ND (1.0)	ND (1.0)	ND (1.0)	ND (3.0)	ND (1.0)	ND (10)	ND (1.0)	ND (0.03)	ND (50)	ND (59)	ND (79)	64.0	8260/8011/ 8015C
MW-12S	10/28/16	ND	ND (1.0)	ND (1.0)	ND (1.0)	ND (3.0)	ND (1.0)	ND (10)	ND (1.0)	ND (0.03)	ND (50)	ND (60)	ND (80)	24.0	8260/8011/ 8015C
MW-12D	10/28/16	ND	ND (1.0)	ND (1.0)	ND (1.0)	ND (3.0)	ND (1.0)	ND (10)	ND (1.0)	ND (0.03)	ND (50)	ND (62)	ND (83)	52.0	8260/8011/ 8015C
MW-13S	10/28/16	ND	ND (1.0)	ND (1.0)	ND (1.0)	ND (3.0)	ND (1.0)	ND (10)	ND (1.0)	ND (0.03)	ND (50)	73 (60)	200 (79)	28.0	8260/8011/ 8015C
MW-13D	10/28/16	ND	ND (1.0)	ND (1.0)	ND (1.0)	ND (3.0)	ND (1.0)	ND (10)	ND (1.0)	ND (0.03)	ND (50)	ND (60)	130 (80)	51.0	8260/8011/ 8015C

Concentrations are in ug/l. ( ) = Detection Limits. ND = Not Detected. NR = No recorded information

Values for 8260 method represent a portion of the full analysis. Analysis of all constituents are included in the laboratory report.

Values represent the risk levels for groundwater pathway, given in the KDHE Tier 2 Risk-Based Summary Table, 5th Edition, October 2010.

Bold values indicate concentrations that exceed tier 2 risk-based screening levels.

Table 2.4.2
Groundwater Polycyclic Aromatic Hydrocarbon Data

Monitoring Well No.	Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene	EPA Test Method
RSK Level-Non-Residential*		*521*	*NA*	*2500*	*0.75*	*0.20*	*0.53*	*NA*	*5.43*	*75*	*0.27*	*1370*	*341*	*0.39*	*2.11*	*NA*	*1090*	
RSK Level-Residential*		*253*	*NA*	*1150*	*0.22*	*0.20*	*0.16*	*NA*	*1.62*	*22*	*0.008*	*255*	*162*	*0.12*	*1.11*	*NA*	*202*	
MW-9S	10/28/16	1.60 (0.091)	0.40 (0.091)	0.43 (0.091)	0.25 (0.091)	0.16 (0.091)	**0.25** (0.091)	0.12 (0.091)	0.14 (0.091)	0.35 (0.091)	ND (0.091)	1.10 (0.45)	2.00 (0.091)	ND (0.091)	**167** (11.4)	2.10 (0.091)	1.00 (0.091)	8270 SIM
MW-9D	10/28/16	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.45)	ND (0.091)	ND (0.091)	1.1 (0.45)	ND (0.45)	ND (0.091)	8270 SIM
MW-10S	10/28/16	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.45)	ND (0.091)	ND (0.091)	ND (0.45)	ND (0.45)	ND (0.091)	8270 SIM
MW-10D	10/28/16	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.45)	ND (0.091)	ND (0.091)	ND (0.45)	ND (0.45)	ND (0.091)	8270 SIM
MW-12S	10/28/16	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.45)	ND (0.091)	ND (0.091)	ND (0.45)	ND (0.45)	ND (0.091)	8270 SIM
MW-12D	10/28/16	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.45)	ND (0.091)	ND (0.091)	ND (0.45)	ND (0.45)	ND (0.091)	8270 SIM
MW-13S	10/28/16	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.45)	ND (0.091)	ND (0.091)	ND (0.45)	ND (0.45)	ND (0.091)	8270 SIM
MW-13D	10/28/16	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.091)	ND (0.45)	ND (0.091)	ND (0.091)	ND (0.45)	ND (0.45)	ND (0.091)	8270 SIM

All concentrations in µg/l. () = Detection Limits. ND = Not Detected.

* Values represent the risk levels for groundwater pathway, given in the KDHE Tier 2 Risk-Based Summary Table, 5th Edition, June 2010.

Bold values indicate concentrations that exceed tier 2 risk-based screening levels.

TABLE 2.5 WELL COMPLETION INFORMATION

Monitoring Well ID	Locking Tag ID No.	State ID Tag No.	Licensed Survey Data - Casing Elevation (ft.)	Depth to groundwater below ground surface (bgs)	Groundwater Elevation Prior to Purging (TOC) (ft.)	Groundwater Elevation Prior to Sampling (TOC) (ft.)	Elevation of air/product interface	Separate Phase Product Thickness	Static Water Level Date
MW-9S	NYI	N/A	1334.02	14.05	1319.97	1319.90	N/A	0.0	10/28/16
MW-9D	NYI	N/A	1333.87	19.02	1314.85	1314.86	N/A	0.0	10/28/16
MW-10S	NYI	N/A	1346.68	31.71	1314.97	1314.49	N/A	0.0	10/28/16
MW-10D	NYI	N/A	1346.69	31.96	1314.73	1314.70	N/A	0.0	10/28/16
MW12S	NYI	N/A	1326.08	11.40	1314.68	1314.64	N/A	0.0	10/28/16
MW12D	NYI	N/A	1326.09	11.58	1314.51	1314.51	N/A	0.0	10/28/16
MW-13S	NYI	N/A	1339.55	25.55	1314.00	1313.99	N/A	0.0	10/28/16
MW-13D	NYI	N/A	1339.31	25.42	1313.89	1313.87	N/A	0.0	10/28/16

TOC = Top of Casing NYI - Not yet implemented N/A - Not applicable

On-site vertical control point elevation= 1333.85 City of Wichita Medallion

* = Rim Datum Elevation

Recharge rate maintained groundwater elevations throughout purging for all sampled wells additional static measurements were not completed.

TABLE 2.6 WASTE HANDLING RESULTS

Type of Waste	Soil	Water
Quantity Generated	225 cubic feet	270 gallons
Storage & Disposal Methods	Transported via trailer to roll-off dumpster stored temporarily on GSI property awaiting analytical results.	Transported via tank to temporary storage on GSI property awaiting analytical results.
Field Analysis:	TBA	TBA
Laboratory Analyses:		
Benzene		
Toluene		
Ethylbenzene		
Total Xylenes		
1,2 DCA		
Naphthalene		
MtBE		
EDB		
OA-1		
OA-2		
Disposal Location	Undetermined	Undetermined

1,2 DCA = 1,2 Dichloroethane; MtBE = Methyl tertButyl Ether; EDB = Ethylene dibromide.

3.0 MAPS

FIGURE 1: GENERAL SITE LOCATION TOPOGRAPHIC MAP
FIGURE 2: AREA SITE BASE MAPS
- FIGURE 2.1: SITE BASE MAP 350' RADIUS
- FIGURE 2.2: SITE BASE MAP 500' RADIUS

FIGURE 3: AERIAL BASE MAP 500' RADIUS
- FIGURE 3.1: GROUNDWATER FLOW MAP DEEP WELLS
- FIGURE 3.2: GROUNDWATER FLOW SHALLOW WELLS

FIGURE 4: GROUNDWATER ISOCONCENTRATION MAPS
- FIGURE 4.1: TOTAL BTEX IN DEEP WELLS
- FIGURE 4.2: TOTAL BTEX IN SHALLOW WELLS
- FIGURE 4.3: ETHYLBENZENE IN DEEP WELLS
- FIGURE 4.4: ETHYLBENZENE IN SHALLOW WELLS
- FIGURE 4.5: XYLENE IN DEEP WELLS
- FIGURE 4.6: XYLENE IN SHALLOW WELLS
- FIGURE 4.7: NA
- FIGURE 4.8: NAPHTHALENE IN SHALLOW WELLS
- FIGURE 4.9: MTBE IN DEEP WELLS
- FIGURE 4.10: LRH IN DEEP WELLS
- FIGURE 4.11: LRH IN SHALLOW WELLS
- FIGURE 4.12: MRH IN DEEP WELLS
- FIGURE 4.13: MRH IN SHALLOW WELLS
- FIGURE 4.14: HRH IN DEEP WELLS
- FIGURE 4.15: HRH IN SHALLOW WELLS

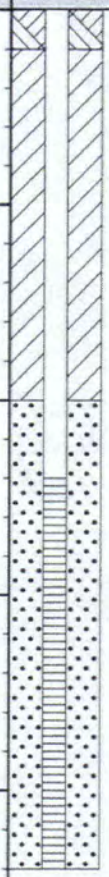
4.0 DRILLING LOGS

Boring Log / Monitoring Well Schematic MW-9S

DATE DRILLED	LOCATION OF WELL	STATE I.D. No.	DRILLER	GEOLOGIST
10/20/16		NA	J. Lear	M. Balleau

TYPE OF SURFACE	DRILLING METHOD / SAMPLING METHOD	DRILL RIG
Grass	4.25"ID/8.25"OD Hollow Stem Auger / Split Spoon	CME-75

DEPTH (feet)	SAMPLE NO. & TYPE*	PID SAMPLE INTERVAL	REC. (%)	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION
0	S-1	0-2.5		0.0		LEAN CLAY (CL)- dark brown
	S-2					
5	S-3	5-7.5		0.0		- brown
	S-4	7.5-10		0.0		- brown to red, with sand
10	S-5					- packed SAND lens at 11', multiple sand lenses intermixed with clay between 11' and 12.5'
	S-6					- red brown, with sand SANDY CLAY (CL)
15	S-7					- strong hydrocarbon odor in bottom 7' of boring
	S-8					FAT CLAY (CH)- red brown, no sand
20	S-9					
						Bottom of Boring @ 22'
25						
30						



WELL CONSTRUCTION DETAILS

COORDINATES

Latitude: N 37.69393
Longitude: W97.46245
W 97.46245

ELEVATION

Casing: 1334.02
Pad: 1334.27

PROTECTIVE COVER

Type: Flushmount manhole
Size: 7x10"

PAD

Type: Concrete
Size: 2x2'

WELL SEAL/GROUT

Type: Bentonite
Amount: 125 lbs
Water: 13 gal

WELL SEAL/GROUT

Type: NA
Amount:
Water:

WELL PACK

Type: 12-20 Sand
Amount: 325 lbs

RISER

Type: PVC
Schedule: 40
Inside Dia.: 2"

SCREEN

Type: PVC
Schedule: 40
Slot: 0.010
Inside Dia.: 2"

NOTES: Field screening equipment: MiniRAE USCS classifications determined by onsite visual observations only.

*SAMPLE TYPE

Shelby Tube | Split Spoon | Auger | NX Core | Continuous Sampler | Macro-Core

WATER LEVEL MEASUREMENTS

While Drilling	End of Drilling	Static Level	Static Elev.	Datum	Static Date
12		14.05	1319.97'	TOC	10/28/16

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH TIME. DATA PRESENTED IS A SIMPLIFICATION.

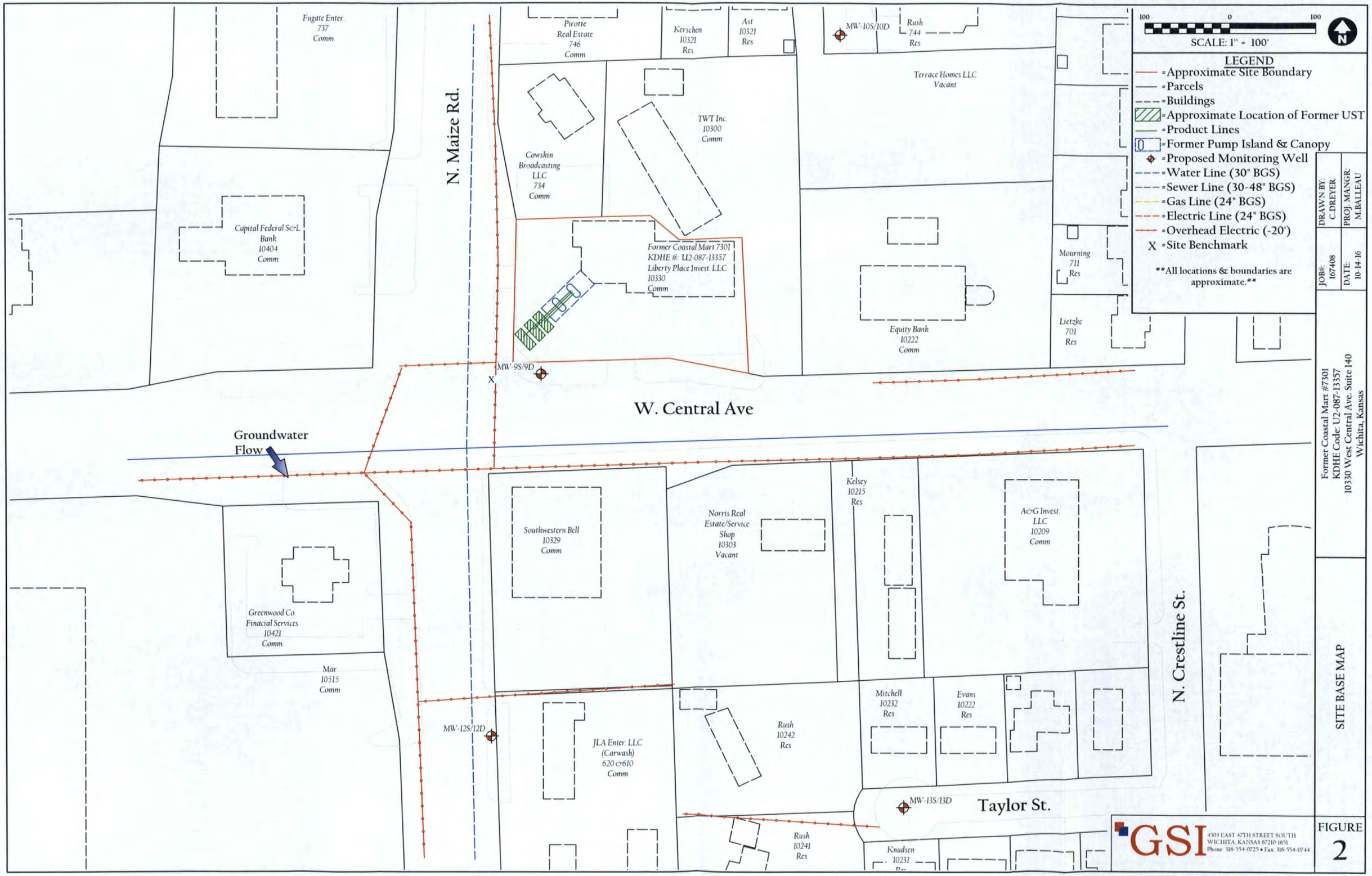
BY: sw APPROV.: mb

GSI Engineering
4503 East 47th Street South
Wichita, KS 67210
316-554-0725

Former Coastal Mart #7301
10330 W. Central Ave.
Wichita, Kansas

BORING LOG / MONITOR WELL SCHEMATIC

PROJECT NO.: 167408 / KDHE Project Code: U2-087-13357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737
Comm
Pirotte
Real Estate
746
Comm
Kerschen
10321
Res
Ast
10321
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MW-10S/10D
Rush
744
Res
Terrace Homes LLC
Vacant
N. Maize Rd.
Cowskin
Broadcasting
LLC
734
Comm
TWT Inc.
10300
Comm
Capital Federal S&L
Bank
10404
Comm
Former Coastal Mart 7301
KDHE #: U2-087-13357
Liberty Place Invest. LLC
10330
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Equity Bank
10222
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Mourning
711
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Lietzke
701
Res
MW-9S/9D
W. Central Ave
Groundwater
Flow
Southwestern Bell
10329
Comm
Norris Real
Estate/Service
Shop
10303
Vacant
Kelsey
10215
Res
A&G Invest.
LLC
10209
Comm
Greenwood Co.
Finacial Services
10421
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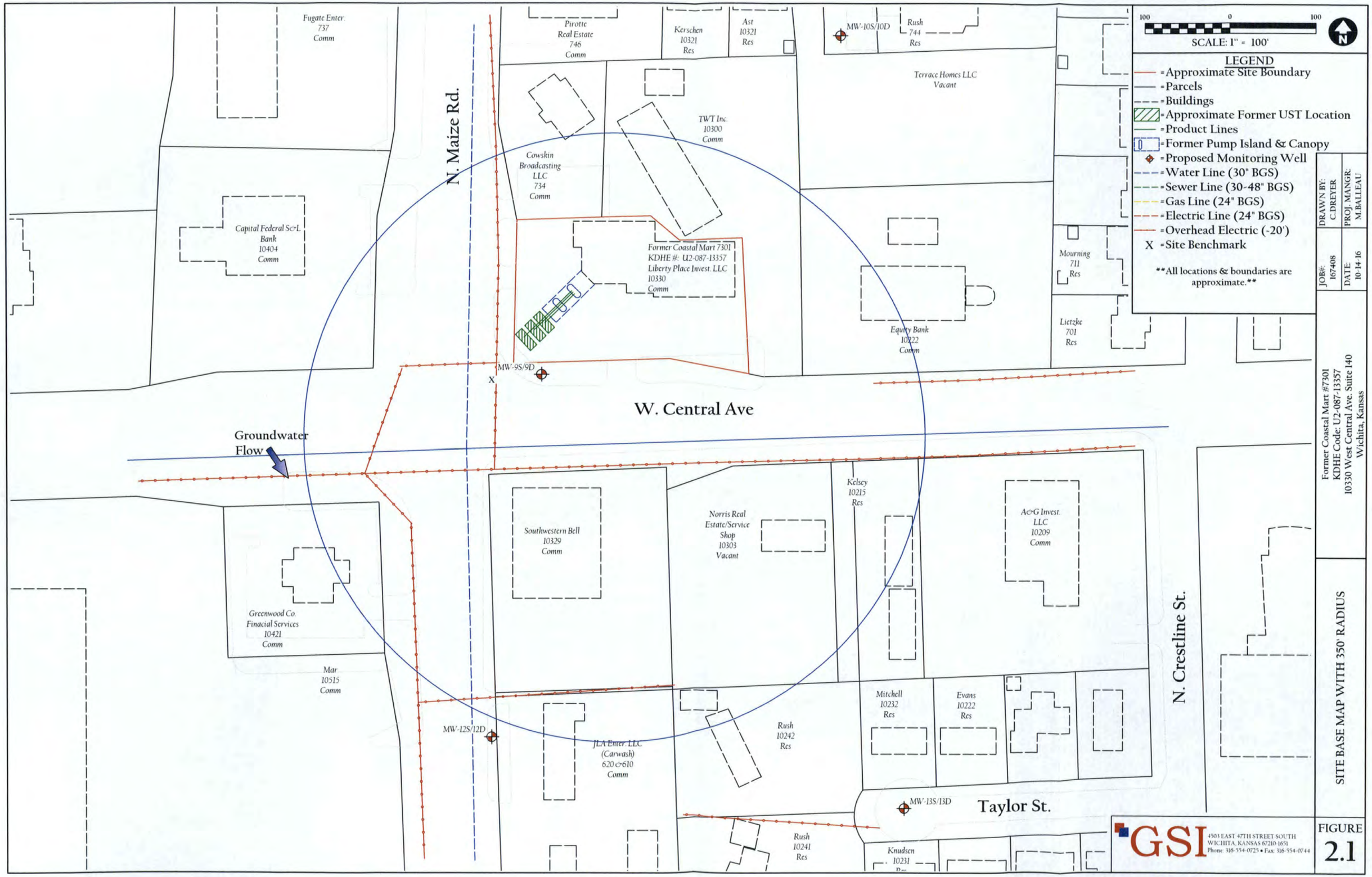
Mar
10515
Comm
MW-12S/12D
JLA Enter. LLC
(Carwash)
620 &610
Comm
Rush
10242
Res
Mitchell
10232
Res
Evans
10222
Res
N. Crestline St.
MW-13S/13D
Taylor St.
Rush
10241
Res
Knudsen
10231
Res
SCALE: 1" = 100'
LEGEND
= Approximate Site Boundary
= Parcels
= Buildings
= Approximate Location of Former UST
= Product Lines
= Former Pump Island & Canopy
= Proposed Monitoring Well
= Water Line (30" BGS)
= Sewer Line (30-48" BGS)
= Gas Line (24" BGS)
= Electric Line (24" BGS)
= Overhead Electric (-20')
X = Site Benchmark
All locations & boundaries are approximate.
DRAWN BY: C.DREYER
PROJ. MANGR: M.BALLEAU
JOB#: 167408
DATE: 10-14-16
Former Coastal Mart #7301
KDHE Code: U2-087-13357
10330 West Central Ave. Suite 140
Wichita, Kansas
SITE BASE MAP
GSI
4503 EAST 47TH STREET SOUTH
WICHITA, KANSAS 67210-1651
Phone: 316-554-0725 • Fax: 316-554-0744
FIGURE
2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Liberty Place Invest. LLC
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Kelsey
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Southwestern Bell
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Norris Real
Estate/Service
Shop
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A&G Invest.
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Greenwood Co.
Finacial Services
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Mar
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N. Crestline St.
MW-12S/12D
JLA Enter. LLC
(Carwash)
620 & 610
Comm
Rush
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Mitchell
10232
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Evans
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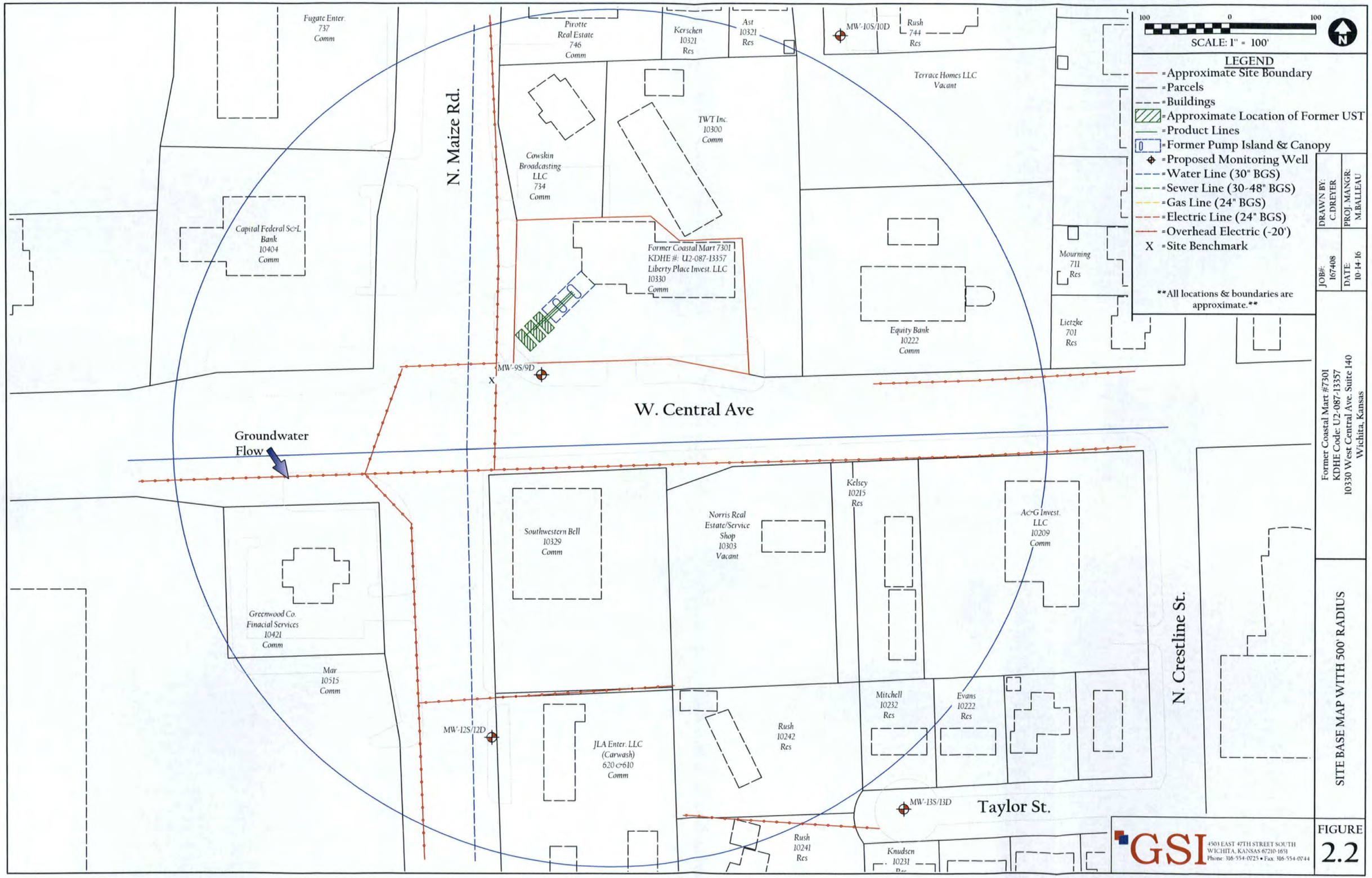
MW-13S/13D
Taylor St.
Rush
10241
Res
Knudsen
10231
SCALE: 1" = 100'
LEGEND
= Approximate Site Boundary
= Parcels
= Buildings
= Approximate Former UST Location
= Product Lines
= Former Pump Island & Canopy
= Proposed Monitoring Well
= Water Line (30" BGS)
= Sewer Line (30-48" BGS)
= Gas Line (24" BGS)
= Electric Line (24" BGS)
= Overhead Electric (-20')
X = Site Benchmark
All locations & boundaries are approximate.
DRAWN BY: C.DREYER
PROJ. MANGR: M.BALLEAU
JOB#: 167408
DATE: 10-14-16
Former Coastal Mart #7301
KDHE Code: U2-087-13357
10330 West Central Ave. Suite 140
Wichita, Kansas
SITE BASE MAP WITH 350' RADIUS
GSI
4503 EAST 47TH STREET SOUTH
WICHITA, KANSAS 67210-1651
Phone: 316-554-0723 • Fax: 316-554-0744
FIGURE
2.1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KDHE #: U2-087-13357
Liberty Place Invest. LLC
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Greenwood Co.
Finacial Services
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Southwestern Bell
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Norris Real
Estate/Service
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Ac&G Invest.
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N. Crestline St.
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620 &610
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Rush
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Mitchell
10232
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Evans
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Taylor St.
Rush
10241
Res
Knudsen
10231
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SCALE: 1" = 100'
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LEGEND
= Approximate Site Boundary
= Parcels
= Buildings
= Approximate Location of Former UST
= Product Lines
= Former Pump Island & Canopy
= Proposed Monitoring Well
= Water Line (30" BGS)
= Sewer Line (30-48" BGS)
= Gas Line (24" BGS)
= Electric Line (24" BGS)
= Overhead Electric (-20')
X = Site Benchmark
All locations & boundaries are approximate.
DRAWN BY: C.DREYER
PROJ. MANGR: M.BALLEAU
JOB#: 167408
DATE: 10-14-16
Former Coastal Mart #7301
KDHE Code: U2-087-13357
10330 West Central Ave. Suite 140
Wichita, Kansas
SITE BASE MAP WITH 500' RADIUS
GSI
4503 EAST 47TH STREET SOUTH
WICHITA, KANSAS 67210-1651
Phone: 316-554-0225 • Fax: 316-554-0744
FIGURE
2.2

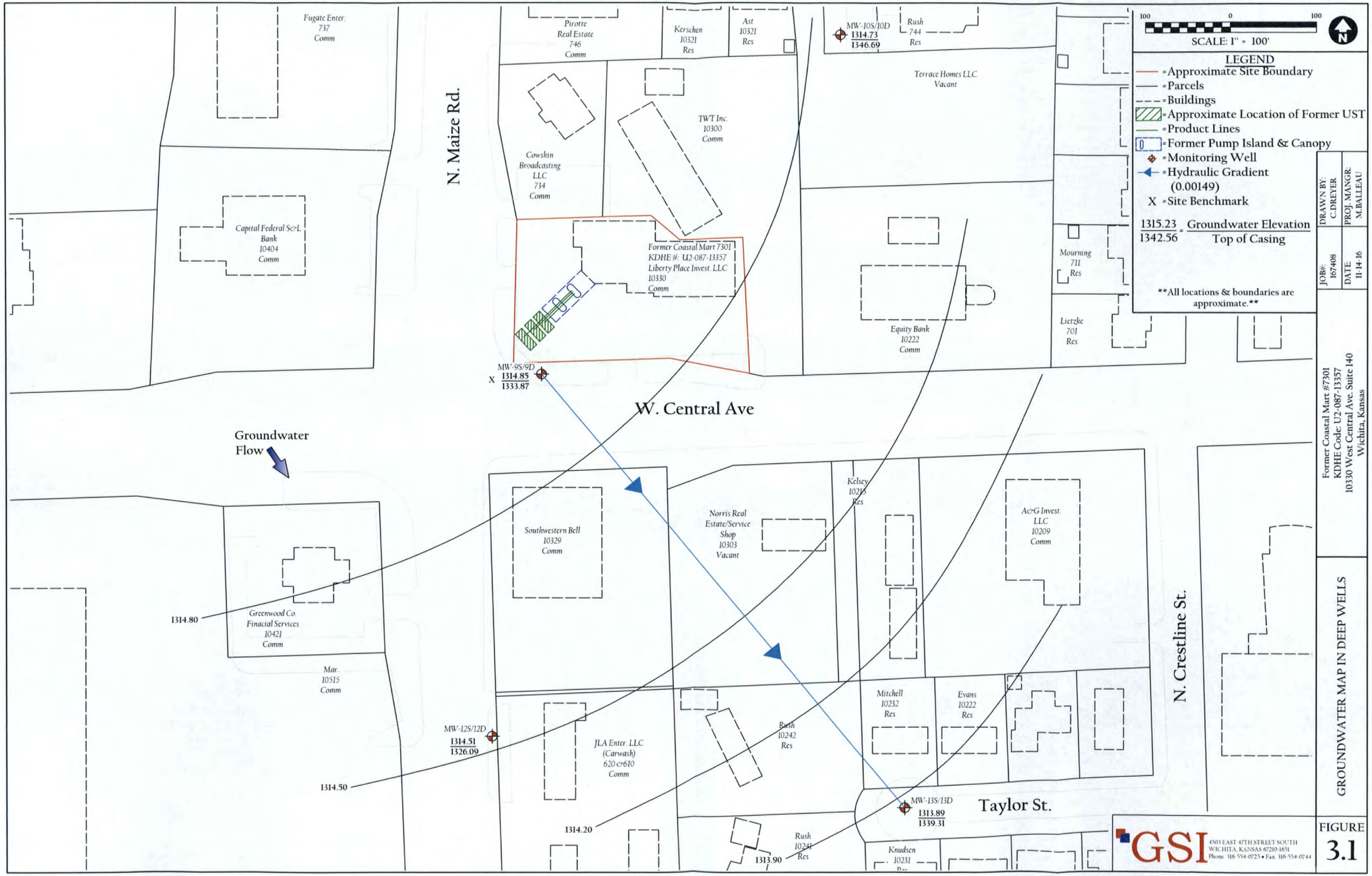
DRAWN BY: C.DREYER
PROJ. MANGR: M.BALLEAU
JOB#: 167408
DATE: 10-14-16

Former Coastal Mart #7301
KDHE Code: U2-087-13357
10330 West Central Ave. Suite 140
Wichita, Kansas

SITE AERIAL BASE MAP
WITH 500' RADIUS

GSI
4503 EAST 47TH STREET SOUTH
WICHITA, KANSAS 67210-1651
Phone: 316-554-0725 • Fax: 316-554-0744

FIGURE
3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N. Maize Rd.
Cowskin
Broadcasting
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Capital Federal Sv&L
Bank
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Former Coastal Mart 7301
KDHE #: U2-087-13357
Liberty Place Invest. LLC
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Equity Bank
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Lietzke
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Groundwater
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Southwestern Bell
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Norris Real
Estate/Service
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Vacant
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Finacial Services
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MW-12S/12D
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(Carwash)
620 & 610
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Mitchell
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1314.20
MW-13S/13D
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1339.31
Taylor St.
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10241
Res
1313.90
Knudsen
10231
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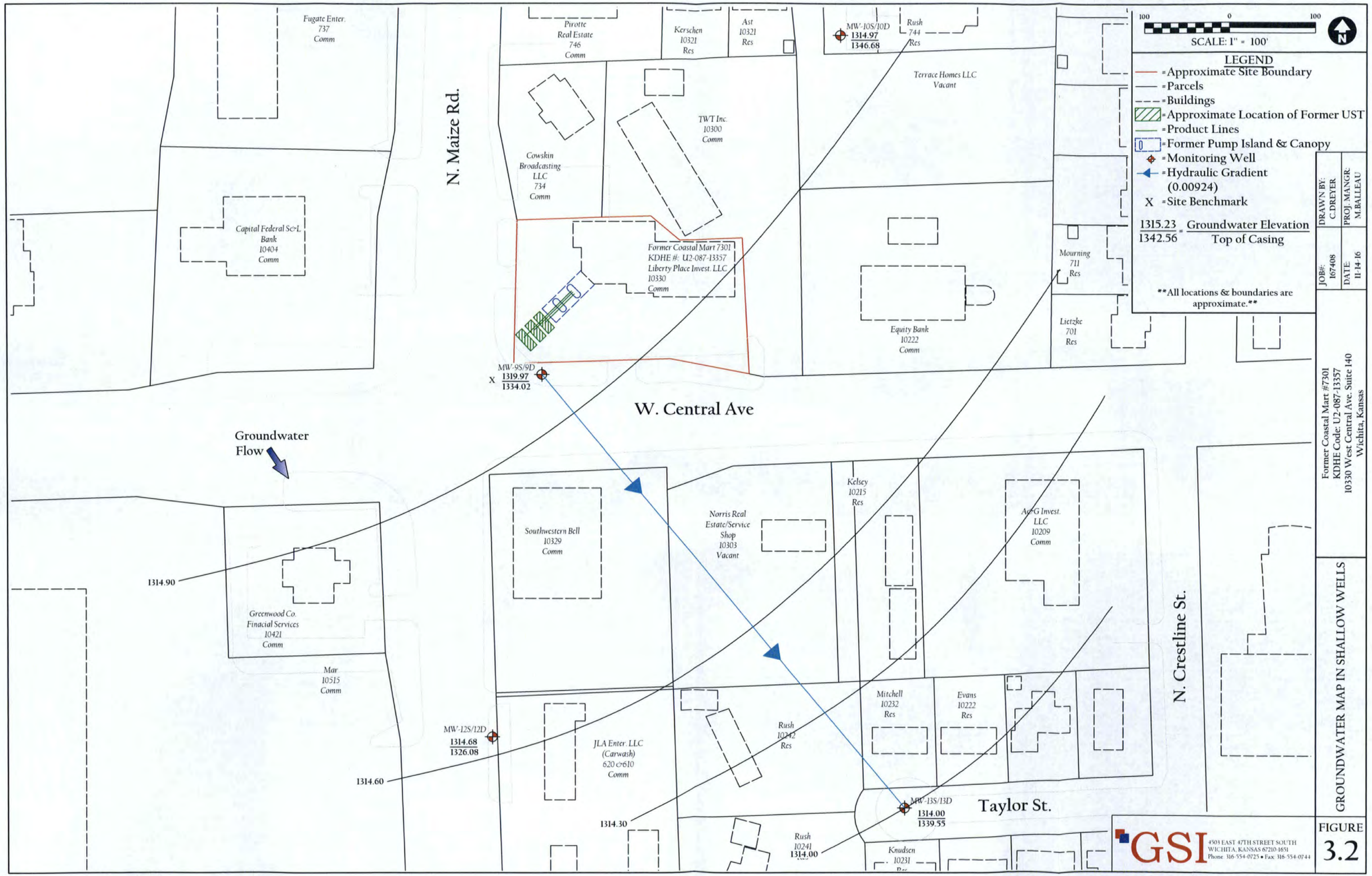
SCALE: 1" = 100'
LEGEND
=Approximate Site Boundary
=Parcels
=Buildings
=Approximate Location of Former UST
=Product Lines
=Former Pump Island & Canopy
=Monitoring Well
=Hydraulic Gradient
(0.00149)
X =Site Benchmark
1315.23 / 1342.56 = Groundwater Elevation / Top of Casing
All locations & boundaries are approximate.
DRAWN BY: C.DREYER
PROJ. MANGR: M.BALLEAU
JOB#: 167408
DATE: 11-14-16
Former Coastal Mart #7301
KDHE Code: U2-087-13357
10330 West Central Ave. Suite 140
Wichita, Kansas
GROUNDWATER MAP IN DEEP WELLS
GSI
4503 EAST 47TH STREET SOUTH
WICHITA, KANSAS 67210-1651
Phone 316-554-0725 • Fax 316-554-0744
FIGURE
3.1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W. Central Ave
Groundwater
Flow
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Greenwood Co.
Finacial Services
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Norris Real
Estate/Service
Shop
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Kelsey
10215
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Ac-G Invest.
LLC
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N. Crestline St.
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1326.08
1314.60
JLA Enter. LLC
(Carwash)
620 & 610
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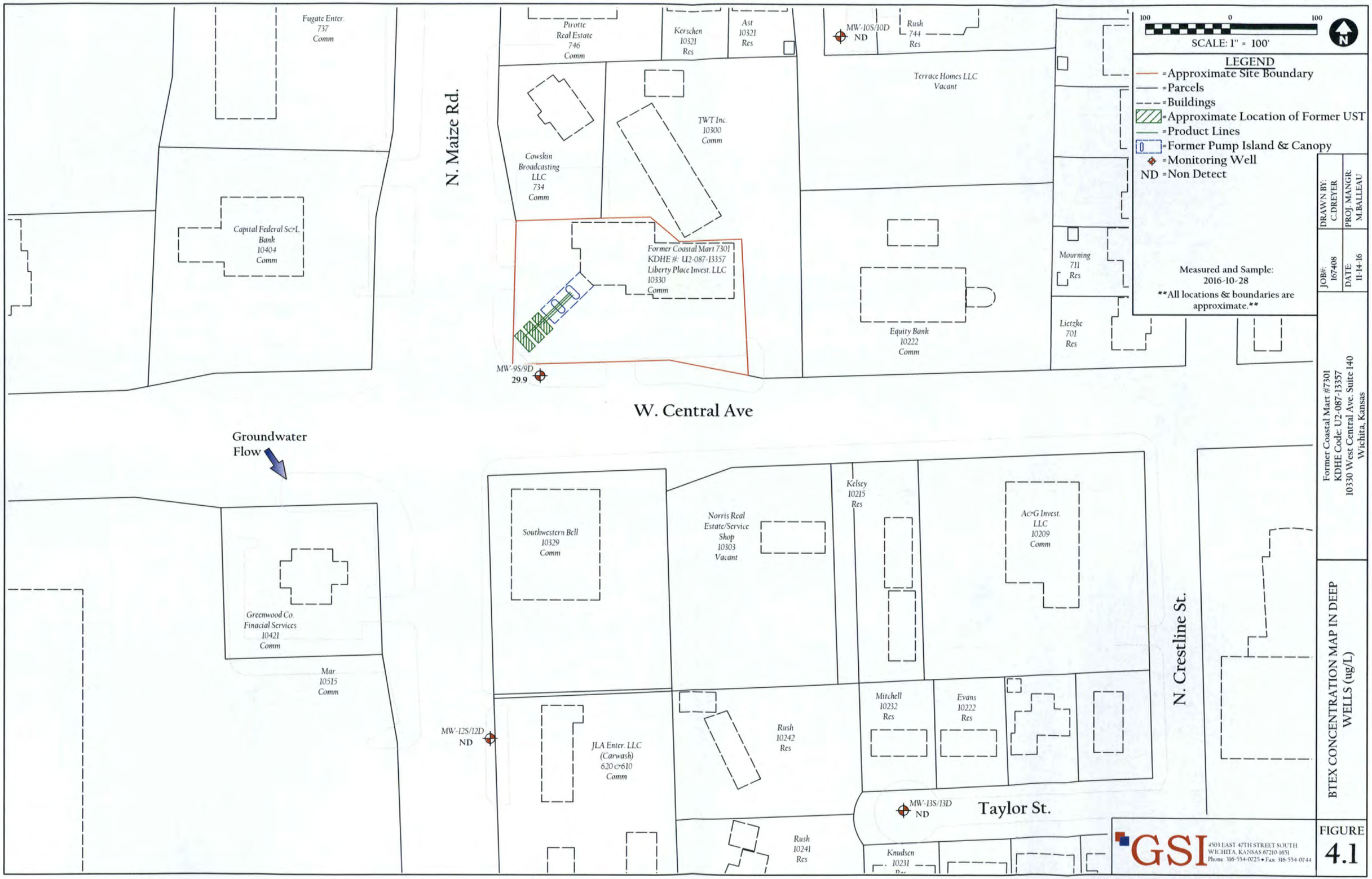
Rush
10242
Res
Mitchell
10232
Res
Evans
10222
Res
1314.30
MW-13S/13D
1314.00
1339.55
Taylor St.
Rush
10241
1314.00
Knudsen
10231
100
0
100
SCALE: 1" = 100'
LEGEND
= Approximate Site Boundary
= Parcels
= Buildings
= Approximate Location of Former UST
= Product Lines
= Former Pump Island & Canopy
= Monitoring Well
= Hydraulic Gradient
(0.00924)
X = Site Benchmark
1315.23 / 1342.56 = Groundwater Elevation / Top of Casing
All locations & boundaries are approximate.
DRAWN BY: C.DREYER
PROJ. MANGR: M.BALLEAU
JOB#: 167408
DATE: 11-14-16
Former Coastal Mart #7301
KDHE Code: U2-087-13357
10330 West Central Ave. Suite 140
Wichita, Kansas
GROUNDWATER MAP IN SHALLOW WELLS
GSI
4503 EAST 47TH STREET SOUTH
WICHITA, KANSAS 67210-1651
Phone: 316-554-0725 • Fax: 316-554-0744
FIGURE
3.2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737
Comm
Capital Federal Sv-L
Bank
10404
Comm
N. Maize Rd.
Pirotte
Real Estate
746
Comm
Kerschen
10321
Res
Ast
10321
Res
MW-10S/10D
ND
Rush
744
Res
Terrace Homes LLC
Vacant
Cowskin
Broadcasting
LLC
734
Comm
TWT Inc.
10300
Comm
Former Coastal Mart 7301
KDHE #: U2-087-13357
Liberty Place Invest. LLC
10330
Comm
MW-9S/9D
29.9
Equity Bank
10222
Comm
Mourning
711
Res
Lietzke
701
Res
W. Central Ave
Groundwater
Flow
Greenwood Co.
Finacial Services
10421
Comm
Mar
10515
Comm
Southwestern Bell
10329
Comm
Norris Real
Estate/Service
Shop
10303
Vacant
Kelsey
10215
Res
Ac&G Invest.
LLC
10209
Comm
N. Crestline St.
MW-12S/12D
ND
JLA Enter. LLC
(Carwash)
620 &610
Comm
Rush
10242
Res
Mitchell
10232
Res
Evans
10222
Res
MW-13S/13D
ND
Taylor St.
Rush
10241
Res
Knudsen
10231
100
0
100
SCALE: 1" = 100'
N
LEGEND
=Approximate Site Boundary
=Parcels
=Buildings
=Approximate Location of Former UST
=Product Lines
=Former Pump Island & Canopy
=Monitoring Well
ND =Non Detect
Measured and Sample:
2016-10-28
All locations & boundaries are approximate.
DRAWN BY: C.DREYER
PROJ. MANGR: M.BALLEAU
JOB#: 167408
DATE: 11-14-16
Former Coastal Mart #7301
KDHE Code: U2-087-13357
10330 West Central Ave. Suite 140
Wichita, Kansas
BTEX CONCENTRATION MAP IN DEEP WELLS (ug/L)
GSI
4503 EAST 47TH STREET SOUTH
WICHITA, KANSAS 67210-1651
Phone: 316-554-0725 • Fax: 316-554-0744
FIGURE
4.1

Fugate Enter.
737
Comm
Capital Federal SvL
Bank
10404
Comm
N. Maize Rd.
Pirotte
Real Estate
746
Comm
Kerschen
10321
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10321
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MW-10S/10D
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Rush
744
Res
Terrace Homes LLC
Vacant
Cowskin
Broadcasting
LLC
734
Comm
TWT Inc.
10300
Comm
Former Coastal Mart 7301
KDHE #: U2-087-13357
Liberty Place Invest. LLC
10330
Comm
MW-9S/9D
1,979.0
Equity Bank
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Comm
Mourning
711
Res
Lietzke
701
Res
W. Central Ave
Groundwater
Flow
Greenwood Co.
Finacial Services
10421
Comm
Mar
10515
Comm
Southwestern Bell
10329
Comm
Norris Real
Estate/Service
Shop
10303
Vacant
Kelsey
10215
Res
Ac&G Invest.
LLC
10209
Comm
N. Crestline St.
MW-12S/12D
ND
JLA Enter. LLC
(Carwash)
620 &610
Comm
Rush
10242
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Mitchell
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Res
Evans
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Res
MW-13S/13D
ND
Taylor St.
Rush
10241
Res
Knudsen
10231
Res
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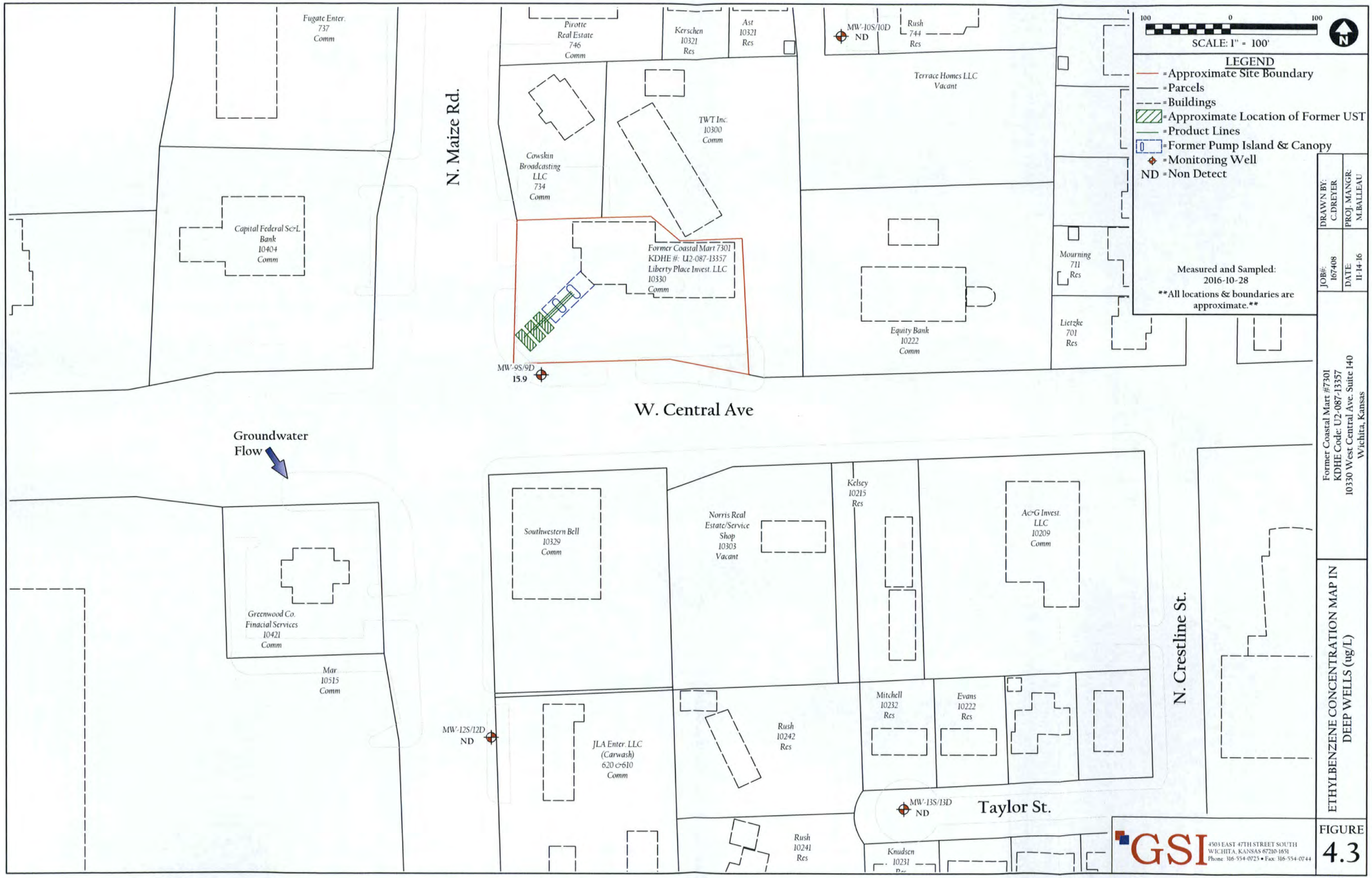
100
SCALE: 1" = 100'
N
LEGEND
= Approximate Site Boundary
= Parcels
= Buildings
= Approximate Location of Former UST
= Product Lines
= Former Pump Island & Canopy
= Monitoring Well
ND = Non Detect
Measured and Sampled:
2016-10-28
All locations & boundaries are approximate.
DRAWN BY: C.DREYER
PROJ. MANGR: M.BALLEAU
JOB#: 167408
DATE: 11-14-16
Former Coastal Mart #7301
KDHE Code: U2-087-13357
10330 West Central Ave. Suite 140
Wichita, Kansas
BTEX CONCENTRATION MAP IN SHALLOW WELLS (ug/L)
GSI
4503 EAST 47TH STREET SOUTH
WICHITA, KANSAS 67210-1651
Phone: 316-554-0723 • Fax: 316-554-0744
FIGURE
4.2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N. Maize Rd.
Pirotte
Real Estate
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Kerschen
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Res
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MW-10S/10D
ND
Rush
744
Res
Terrace Homes LLC
Vacant
Cowskin
Broadcasting
LLC
734
Comm
TWT Inc.
10300
Comm
Former Coastal Mart 7301
KDHE #: U2-087-13357
Liberty Place Invest. LLC
10330
Comm
MW-9S/9D
15.9
Equity Bank
10222
Comm
Mourning
711
Res
Lietzke
701
Res
W. Central Ave
Groundwater
Flow
Greenwood Co.
Finacial Services
10421
Comm
Mar
10515
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Southwestern Bell
10329
Comm
Norris Real
Estate/Service
Shop
10303
Vacant
Kelsey
10215
Res
Ac&G Invest.
LLC
10209
Comm
N. Crestline St.
MW-12S/12D
ND
JLA Enter. LLC
(Carwash)
620 &610
Comm
Rush
10242
Res
Mitchell
10232
Res
Evans
10222
Res
MW-13S/13D
ND
Taylor St.
Rush
10241
Res
Knudsen
10231
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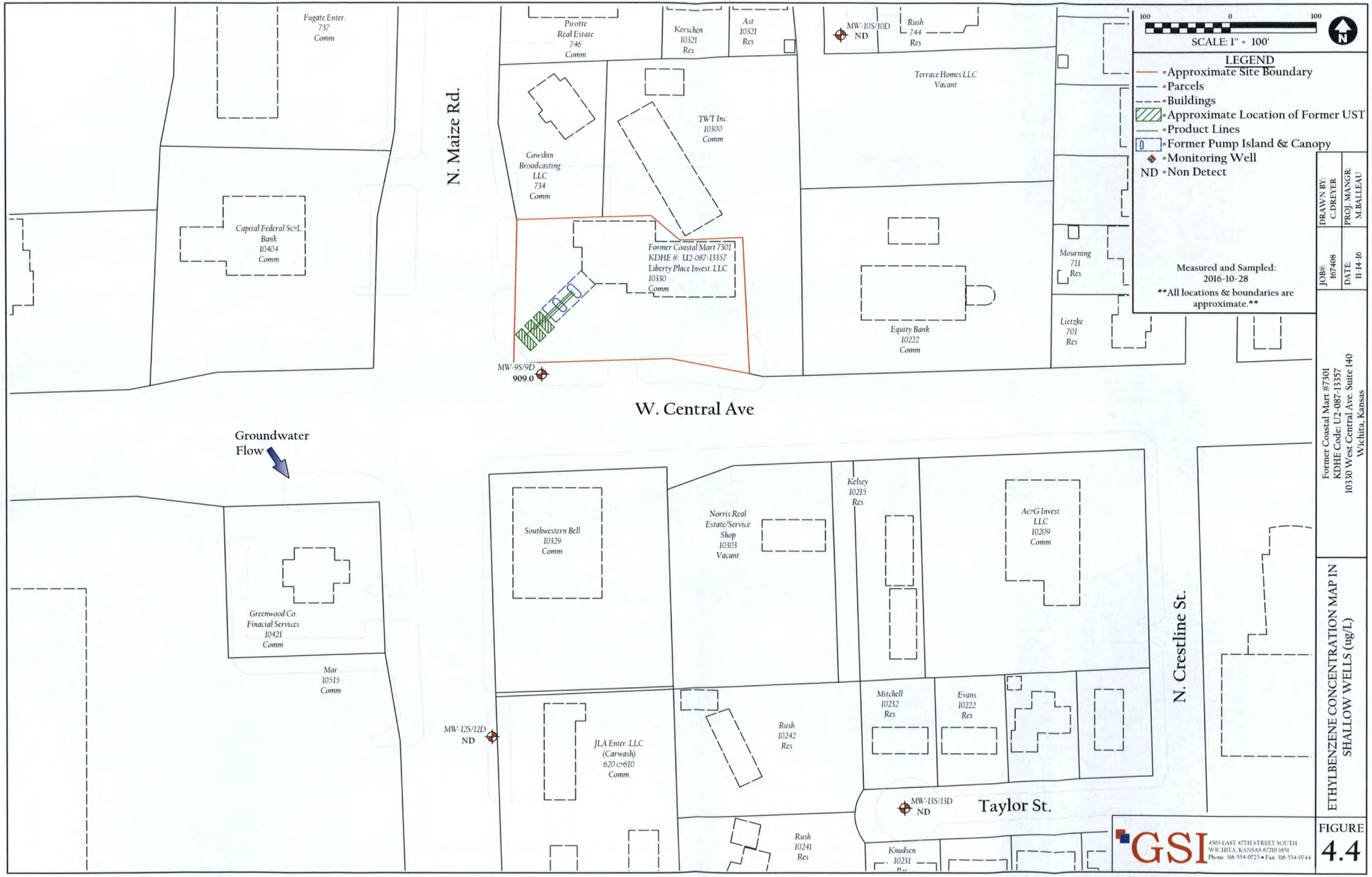
100
SCALE: 1" = 100'
N
LEGEND
= Approximate Site Boundary
= Parcels
= Buildings
= Approximate Location of Former UST
= Product Lines
= Former Pump Island & Canopy
= Monitoring Well
ND = Non Detect
Measured and Sampled:
2016-10-28
All locations & boundaries are approximate.
DRAWN BY: C.DREYER
PROJ. MANGR: M.BALLEAU
JOB#: 167408
DATE: 11-14-16
Former Coastal Mart #7301
KDHE Code: U2-087-13357
10330 West Central Ave. Suite 140
Wichita, Kansas
ETHYLBENZENE CONCENTRATION MAP IN DEEP WELLS (ug/L)
GSI
4503 EAST 47TH STREET SOUTH
WICHITA, KANSAS 67210-1651
Phone 316-554-0723 • Fax 316-554-0744
FIGURE
4.3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N. Maize Rd.
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Real Estate
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Kerschen
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Res
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Res
MW-10S/10D
ND
Rush
744
Res
Terrace Homes LLC
Vacant
Cowskin
Broadcasting
LLC
734
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TWT Inc.
10300
Comm
Former Coastal Mart 7301
KDHE #: U2-087-13357
Liberty Place Invest. LLC
10330
Comm
MW-9S/9D
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Equity Bank
10222
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Mourning
711
Res
Lietzke
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Res
W. Central Ave
Groundwater
Flow
Greenwood Co.
Finacial Services
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Comm
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10515
Comm
Southwestern Bell
10329
Comm
Norris Real
Estate/Service
Shop
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Vacant
Kelsey
10215
Res
Ac&G Invest.
LLC
10209
Comm
N. Crestline St.
MW-12S/12D
ND
JLA Enter. LLC
(Carwash)
620 &610
Comm
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10242
Res
Mitchell
10232
Res
Evans
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Res
MW-13S/13D
ND
Taylor St.
Rush
10241
Res
Knudsen
10231
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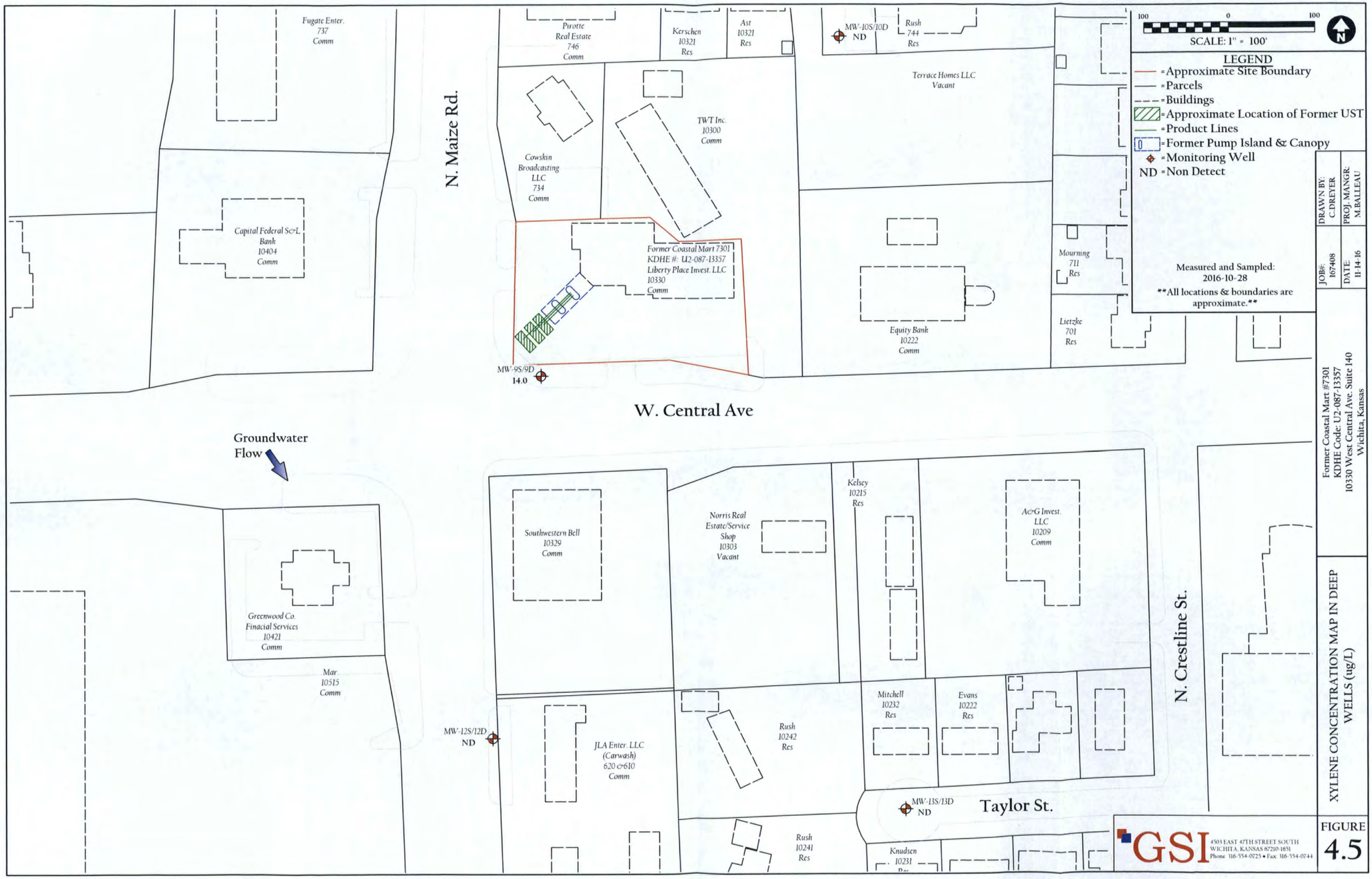
SCALE: 1" = 100'
N
LEGEND
=Approximate Site Boundary
=Parcels
=Buildings
=Approximate Location of Former UST
=Product Lines
=Former Pump Island & Canopy
=Monitoring Well
ND =Non Detect
Measured and Sampled:
2016-10-28
All locations & boundaries are approximate.
DRAWN BY: C.DREYER
PROJ. MANGR. M.BALLEAU
JOB#: 167408
DATE: 11-14-16
Former Coastal Mart #7301
KDHE Code: U2-087-13357
10330 West Central Ave. Suite 140
Wichita, Kansas
ETHYLBENZENE CONCENTRATION MAP IN SHALLOW WELLS (ug/L)
GSI
4503 EAST 47TH STREET SOUTH
WICHITA, KANSAS 67210-1651
Phone: 316-554-0725 • Fax: 316-554-0744
FIGURE
4.4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Pirotte
Real Estate
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Comm
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MW-10S/10D
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744
Res
Terrace Homes LLC
Vacant
Cowskin
Broadcasting
LLC
734
Comm
TWT Inc.
10300
Comm
Former Coastal Mart 7301
KDHE #: U2-087-13357
Liberty Place Invest. LLC
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Comm
MW-9S/9D
14.0
Equity Bank
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Comm
Mourning
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Lietzke
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W. Central Ave
Groundwater
Flow
Greenwood Co.
Finacial Services
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10515
Comm
Southwestern Bell
10329
Comm
Norris Real
Estate/Service
Shop
10303
Vacant
Kelsey
10215
Res
A&G Invest.
LLC
10209
Comm
N. Crestline St.
MW-12S/12D
ND
JLA Enter. LLC
(Carwash)
620 &610
Comm
Rush
10242
Res
Mitchell
10232
Res
Evans
10222
Res
MW-13S/13D
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Taylor St.
Rush
10241
Res
Knudsen
10231
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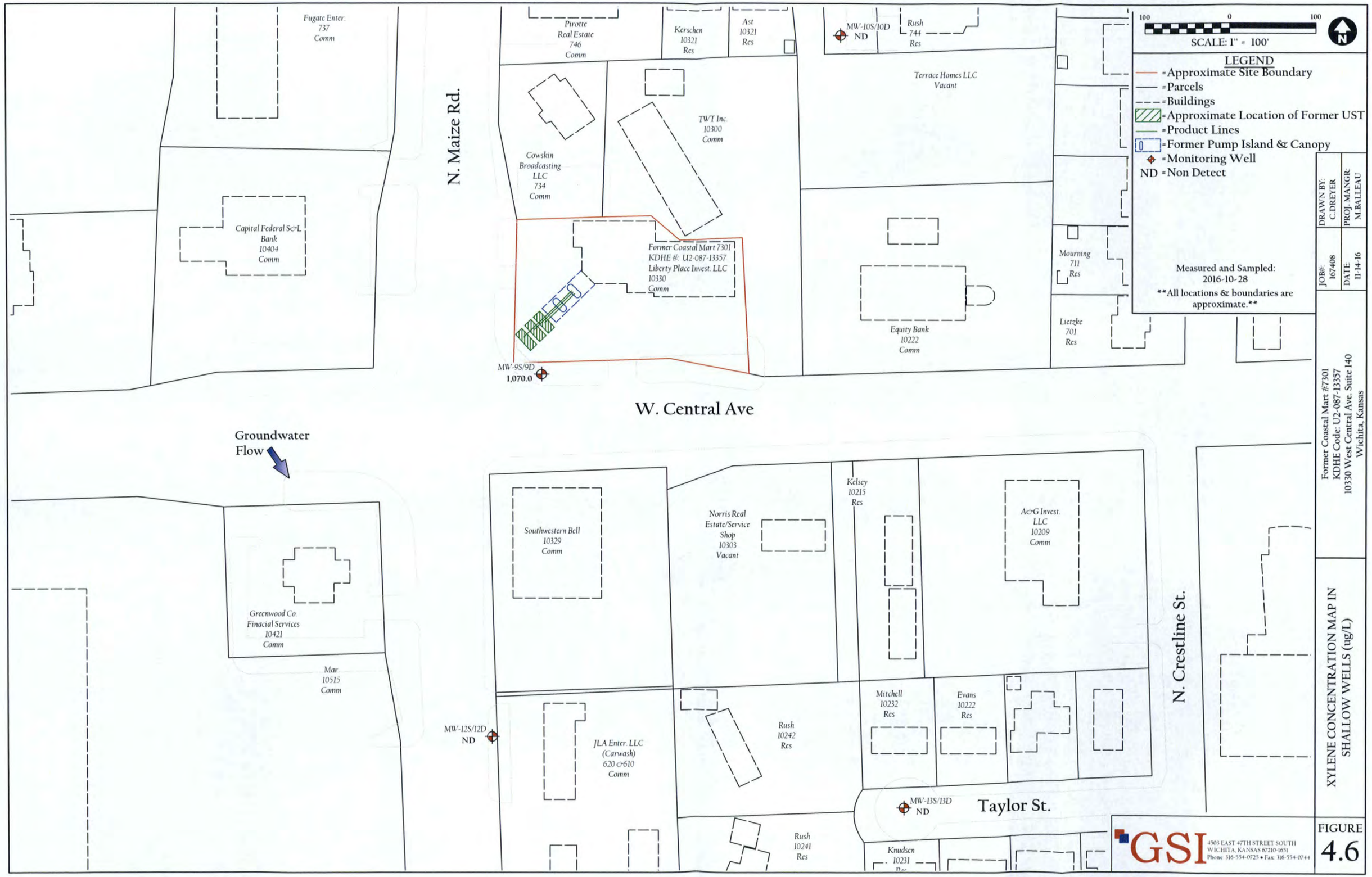
SCALE: 1" = 100'
N
LEGEND
= Approximate Site Boundary
= Parcels
= Buildings
= Approximate Location of Former UST
= Product Lines
= Former Pump Island & Canopy
= Monitoring Well
ND = Non Detect
Measured and Sampled:
2016-10-28
All locations & boundaries are approximate.
DRAWN BY: C.DREYER
PROJ. MANGR: M.BALLEAU
JOB#: 167408
DATE: 11-14-16
Former Coastal Mart #7301
KDHE Code: U2-087-13357
10330 West Central Ave. Suite 140
Wichita, Kansas
XYLENE CONCENTRATION MAP IN DEEP WELLS (ug/L)
GSI
4503 EAST 47TH STREET SOUTH
WICHITA, KANSAS 67210-1651
Phone: 316-554-0723 • Fax: 316-554-0744
FIGURE
4.5


Fugate Enter.
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Pirotte
Real Estate
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Comm
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Res
MW-10S/10D
ND
Rush
744
Res
Terrace Homes LLC
Vacant
Cowskin
Broadcasting
LLC
734
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TWT Inc.
10300
Comm
Former Coastal Mart 7301
KDHE #: U2-087-13357
Liberty Place Invest. LLC
10330
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MW-9S/9D
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Equity Bank
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Comm
Mourning
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Res
Lietzke
701
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W. Central Ave
Groundwater
Flow
Greenwood Co.
Finacial Services
10421
Comm
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10515
Comm
Southwestern Bell
10329
Comm
Norris Real
Estate/Service
Shop
10303
Vacant
Kelsey
10215
Res
A&G Invest.
LLC
10209
Comm
N. Crestline St.
MW-12S/12D
ND
JLA Enter. LLC
(Carwash)
620 &610
Comm
Rush
10242
Res
Mitchell
10232
Res
Evans
10222
Res
MW-13S/13D
ND
Taylor St.
Rush
10241
Res
Knudsen
10231
100
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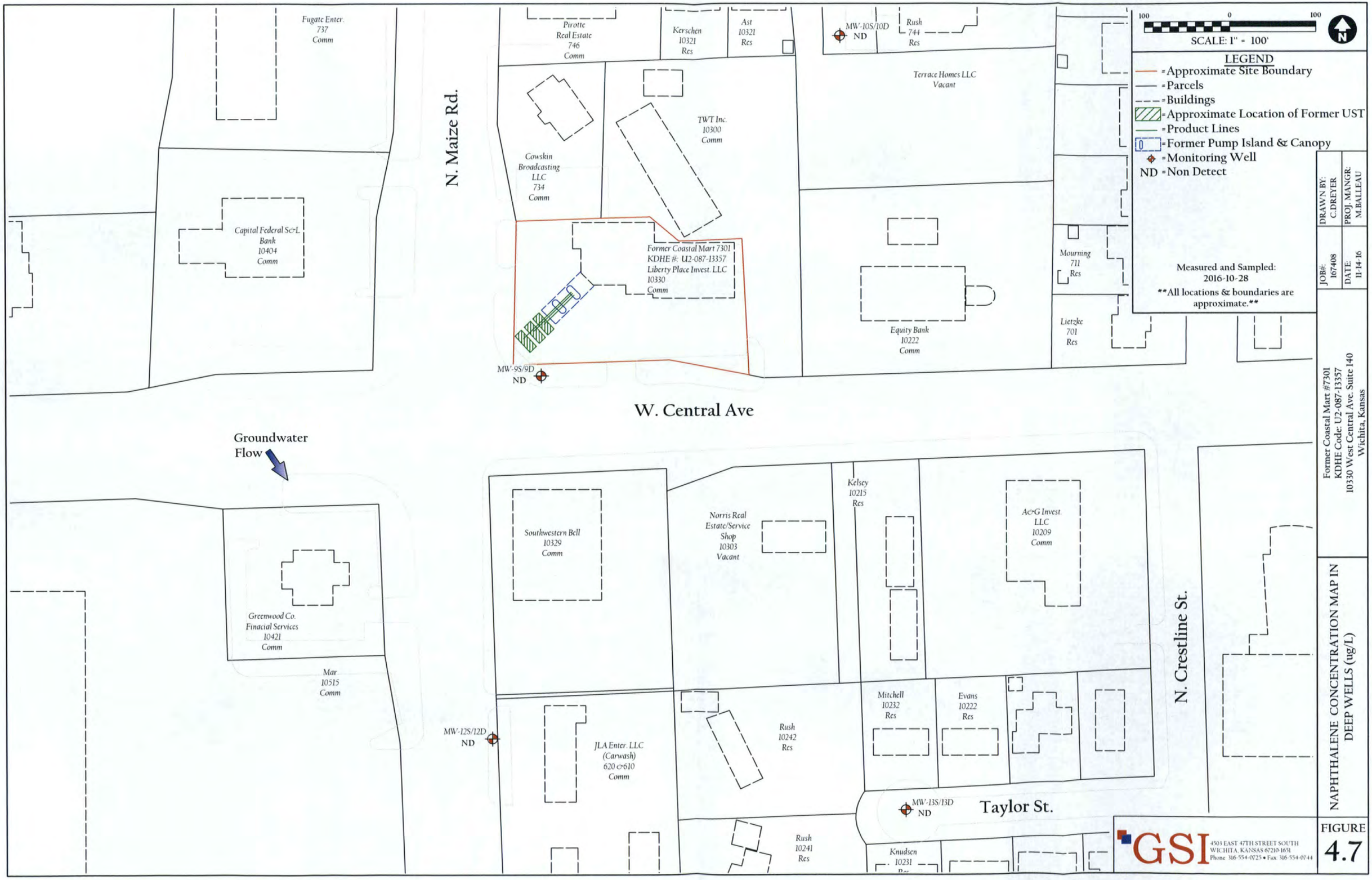
100
SCALE: 1" = 100'
N
LEGEND
= Approximate Site Boundary
= Parcels
= Buildings
= Approximate Location of Former UST
= Product Lines
= Former Pump Island & Canopy
= Monitoring Well
ND = Non Detect
Measured and Sampled:
2016-10-28
All locations & boundaries are approximate.
DRAWN BY: C.DREYER
PROJ. MANGR: M.BALLEAU
JOB#: 167408
DATE: 11-14-16
Former Coastal Mart #7301
KDHE Code: U2-087-13357
10330 West Central Ave. Suite 140
Wichita, Kansas
XYLENE CONCENTRATION MAP IN
SHALLOW WELLS (ug/L)
GSI
4503 EAST 47TH STREET SOUTH
WICHITA, KANSAS 67210-1651
Phone 316-554-0723 • Fax 316-554-0744
FIGURE
4.6


Fugate Enter.
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N. Maize Rd.
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Real Estate
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Comm
Kerschen
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Res
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10321
Res
MW-10S/10D
ND
Rush
744
Res
Terrace Homes LLC
Vacant
Cowskin
Broadcasting
LLC
734
Comm
TWT Inc.
10300
Comm
Former Coastal Mart 7301
KDHE #: U2-087-13357
Liberty Place Invest. LLC
10330
Comm
MW-9S/9D
ND
Equity Bank
10222
Comm
Mourning
711
Res
Lietzke
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Res
W. Central Ave
Groundwater
Flow
Greenwood Co.
Finacial Services
10421
Comm
Mar
10515
Comm
Southwestern Bell
10329
Comm
Norris Real
Estate/Service
Shop
10303
Vacant
Kelsey
10215
Res
Ac-G Invest.
LLC
10209
Comm
N. Crestline St.
MW-12S/12D
ND
JLA Enter. LLC
(Carwash)
620 &610
Comm
Rush
10242
Res
Mitchell
10232
Res
Evans
10222
Res
MW-13S/13D
ND
Taylor St.
Rush
10241
Res
Knudsen
10231
Res
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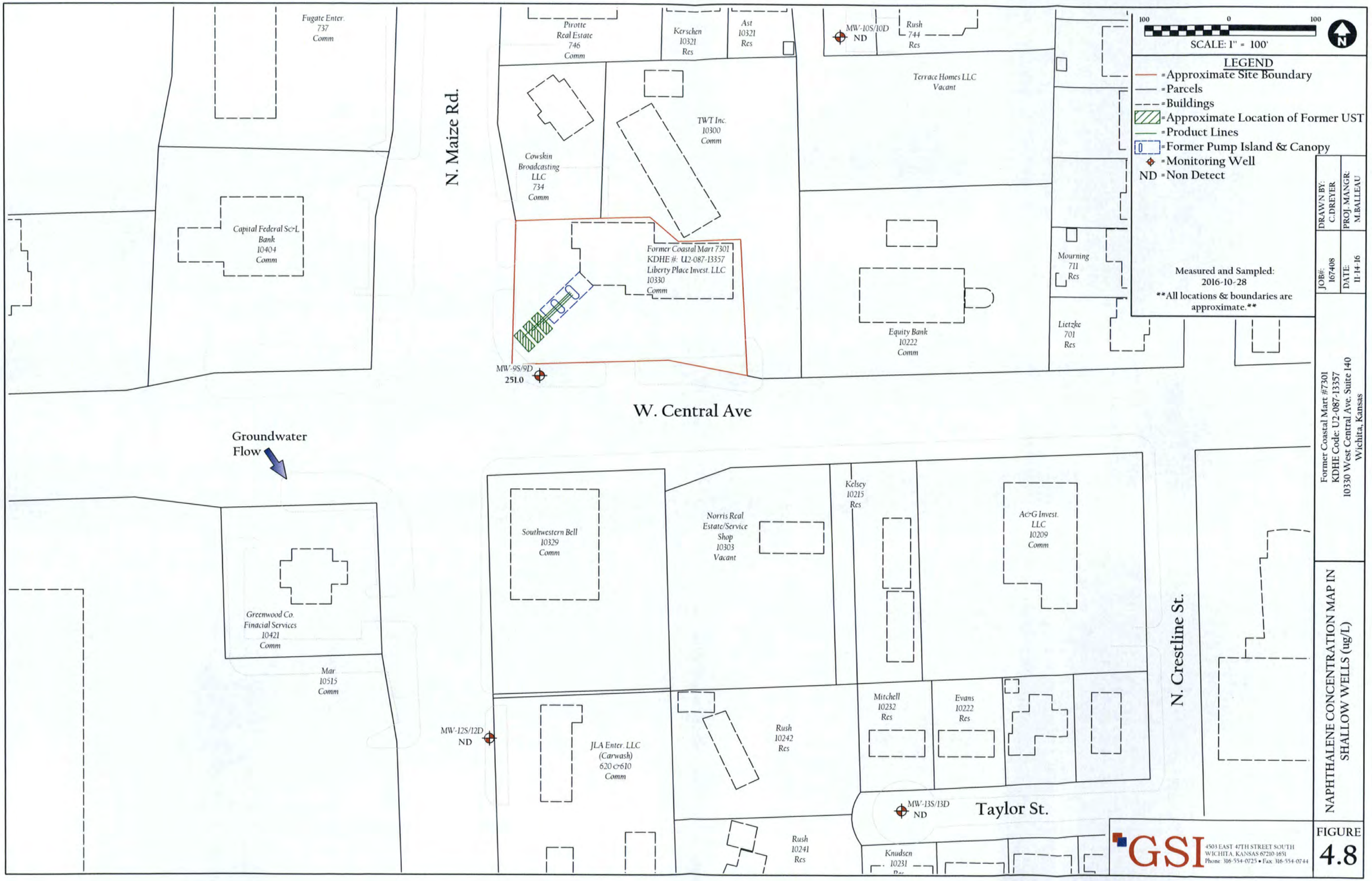
SCALE: 1" = 100'
N
LEGEND
= Approximate Site Boundary
= Parcels
= Buildings
= Approximate Location of Former UST
= Product Lines
= Former Pump Island & Canopy
= Monitoring Well
ND = Non Detect
Measured and Sampled:
2016-10-28
All locations & boundaries are approximate.
DRAWN BY: C.DREYER
PROJ. MANGR: M.BALLEAU
JOB#: 167408
DATE: 11-14-16
Former Coastal Mart #7301
KDHE Code: U2-087-13357
10330 West Central Ave. Suite 140
Wichita, Kansas
NAPHTHALENE CONCENTRATION MAP IN DEEP WELLS (ug/L)
GSI
4503 EAST 47TH STREET SOUTH
WICHITA, KANSAS 67210-1651
Phone 316-554-0725 • Fax 316-554-0744
FIGURE
4.7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Comm
N. Maize Rd.
Pirotte
Real Estate
746
Comm
Kerschen
10321
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Res
MW-10S/10D
ND
Rush
744
Res
Terrace Homes LLC
Vacant
Cowskin
Broadcasting
LLC
734
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TWT Inc.
10300
Comm
Former Coastal Mart 7301
KDHE #: U2-087-13357
Liberty Place Invest. LLC
10330
Comm
MW-9S/9D
251.0
Equity Bank
10222
Comm
Mourning
711
Res
Lietzke
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Res
W. Central Ave
Groundwater
Flow
Greenwood Co.
Finacial Services
10421
Comm
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10515
Comm
Southwestern Bell
10329
Comm
Norris Real
Estate/Service
Shop
10303
Vacant
Kelsey
10215
Res
Ac&G Invest.
LLC
10209
Comm
N. Crestline St.
MW-12S/12D
ND
JLA Enter. LLC
(Carwash)
620 &610
Comm
Rush
10242
Res
Mitchell
10232
Res
Evans
10222
Res
MW-13S/13D
ND
Taylor St.
Rush
10241
Res
Knudsen
10231
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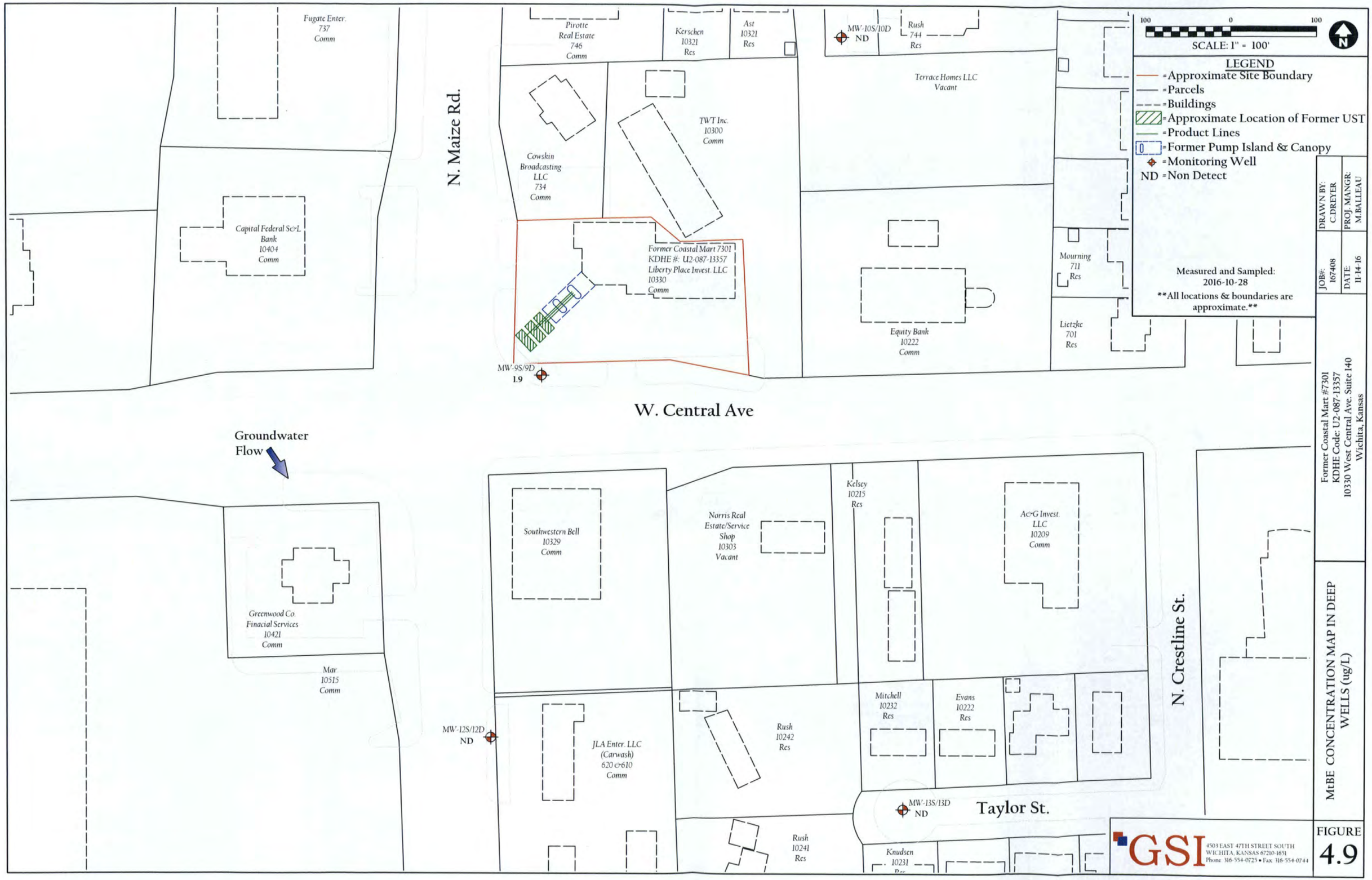
SCALE: 1" = 100'
N
LEGEND
= Approximate Site Boundary
= Parcels
= Buildings
= Approximate Location of Former UST
= Product Lines
= Former Pump Island & Canopy
= Monitoring Well
ND = Non Detect
Measured and Sampled:
2016-10-28
All locations & boundaries are approximate.
DRAWN BY: C.DREYER
PROJ. MANGR: M.BALLEAU
JOB#: 167408
DATE: 11-14-16
Former Coastal Mart #7301
KDHE Code: U2-087-13357
10330 West Central Ave. Suite 140
Wichita, Kansas
NAPHTHALENE CONCENTRATION MAP IN SHALLOW WELLS (ug/L)
GSI
4503 EAST 47TH STREET SOUTH
WICHITA, KANSAS 67210-1651
Phone 316-554-0725 • Fax 316-554-0744
FIGURE
4.8


Fugate Enter.
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10404
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Pirotte
Real Estate
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Comm
Kerschen
10321
Res
Ast
10321
Res
MW-10S/10D
ND
Rush
744
Res
Terrace Homes LLC
Vacant
Cowskin
Broadcasting
LLC
734
Comm
TWT Inc.
10300
Comm
Former Coastal Mart 7301
KDHE #: U2-087-13357
Liberty Place Invest. LLC
10330
Comm
MW-9S/9D
1.9
Equity Bank
10222
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Mourning
711
Res
Lietzke
701
Res
W. Central Ave
Groundwater
Flow
Greenwood Co.
Finacial Services
10421
Comm
Mar
10515
Comm
Southwestern Bell
10329
Comm
Norris Real
Estate/Service
Shop
10303
Vacant
Kelsey
10215
Res
AC/G Invest.
LLC
10209
Comm
N. Crestline St.
MW-12S/12D
ND
JLA Enter. LLC
(Carwash)
620 & 610
Comm
Rush
10242
Res
Mitchell
10232
Res
Evans
10222
Res
MW-13S/13D
ND
Taylor St.
Rush
10241
Res
Knudsen
10231
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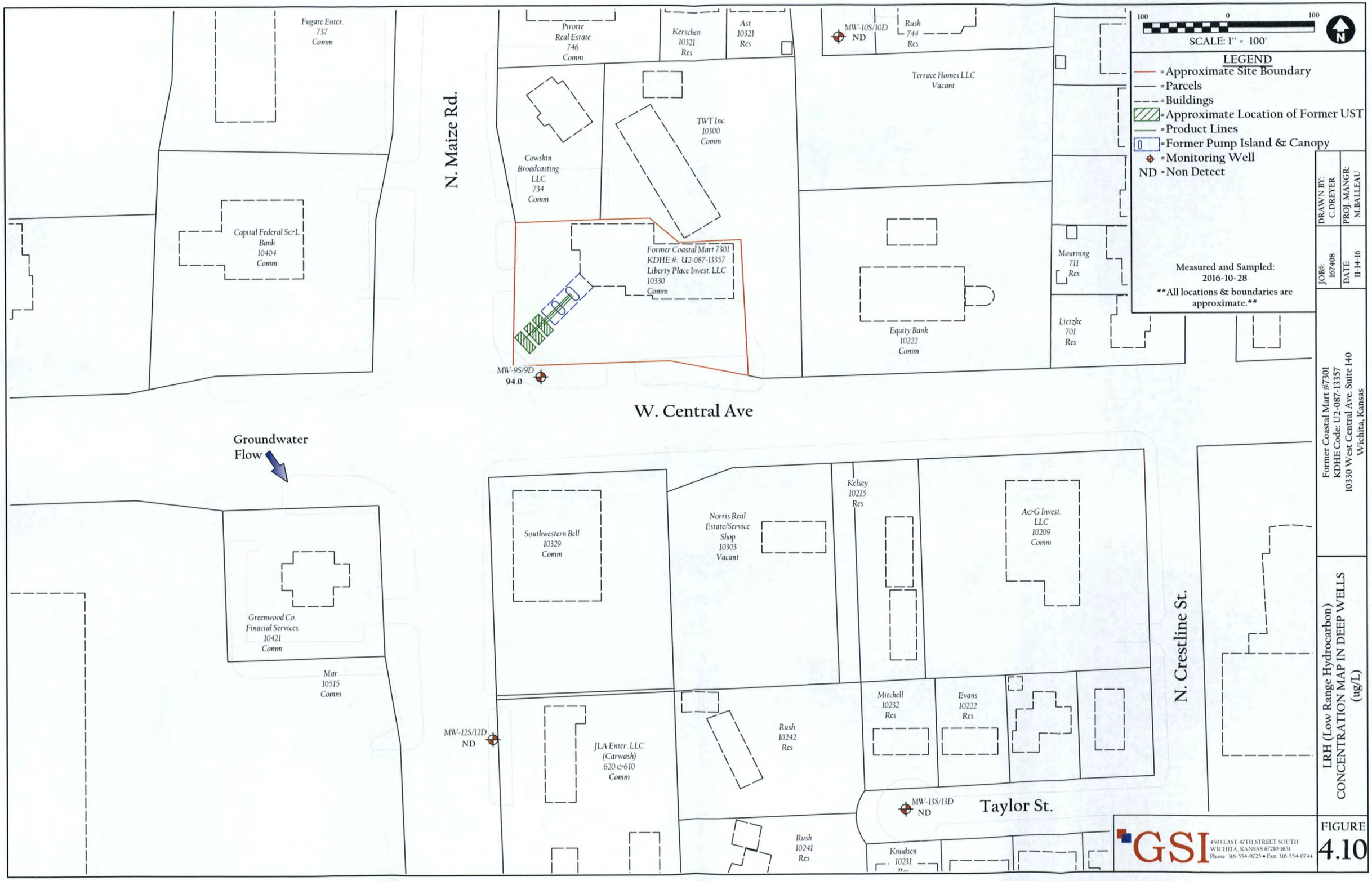
SCALE: 1" = 100'
N
LEGEND
= Approximate Site Boundary
= Parcels
= Buildings
= Approximate Location of Former UST
= Product Lines
= Former Pump Island & Canopy
= Monitoring Well
ND = Non Detect
Measured and Sampled:
2016-10-28
All locations & boundaries are approximate.
DRAWN BY: C.DREYER
PROJ. MANGR: M.BALLEAU
JOB#: 167408
DATE: 11-14-16
Former Coastal Mart #7301
KDHE Code: U2-087-13357
10330 West Central Ave. Suite 140
Wichita, Kansas
MtBE CONCENTRATION MAP IN DEEP WELLS (ug/L)
GSI
4503 EAST 47TH STREET SOUTH
WICHITA, KANSAS 67210-1651
Phone 316-554-0725 • Fax 316-554-0744
FIGURE
4.9


Fugate Enter.
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Capital Federal Sv>L
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Pirotte
Real Estate
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Comm
Kerschen
10321
Res
Ast
10321
Res
MW-10S/10D
ND
Rush
744
Res
Terrace Homes LLC
Vacant
Cowskin
Broadcasting
LLC
734
Comm
TWT Inc.
10300
Comm
Former Coastal Mart 7301
KDHE #: U2-087-13357
Liberty Place Invest. LLC
10330
Comm
MW-9S/9D
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Equity Bank
10222
Comm
Mourning
711
Res
Lietzke
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Res
W. Central Ave
Groundwater
Flow
Greenwood Co.
Finacial Services
10421
Comm
Mar
10515
Comm
Southwestern Bell
10329
Comm
Norris Real
Estate/Service
Shop
10303
Vacant
Kelsey
10215
Res
Ac>G Invest.
LLC
10209
Comm
N. Crestline St.
MW-12S/12D
ND
JLA Enter. LLC
(Carwash)
620 c>610
Comm
Rush
10242
Res
Mitchell
10232
Res
Evans
10222
Res
MW-13S/13D
ND
Taylor St.
Rush
10241
Res
Knudsen
10231
Res
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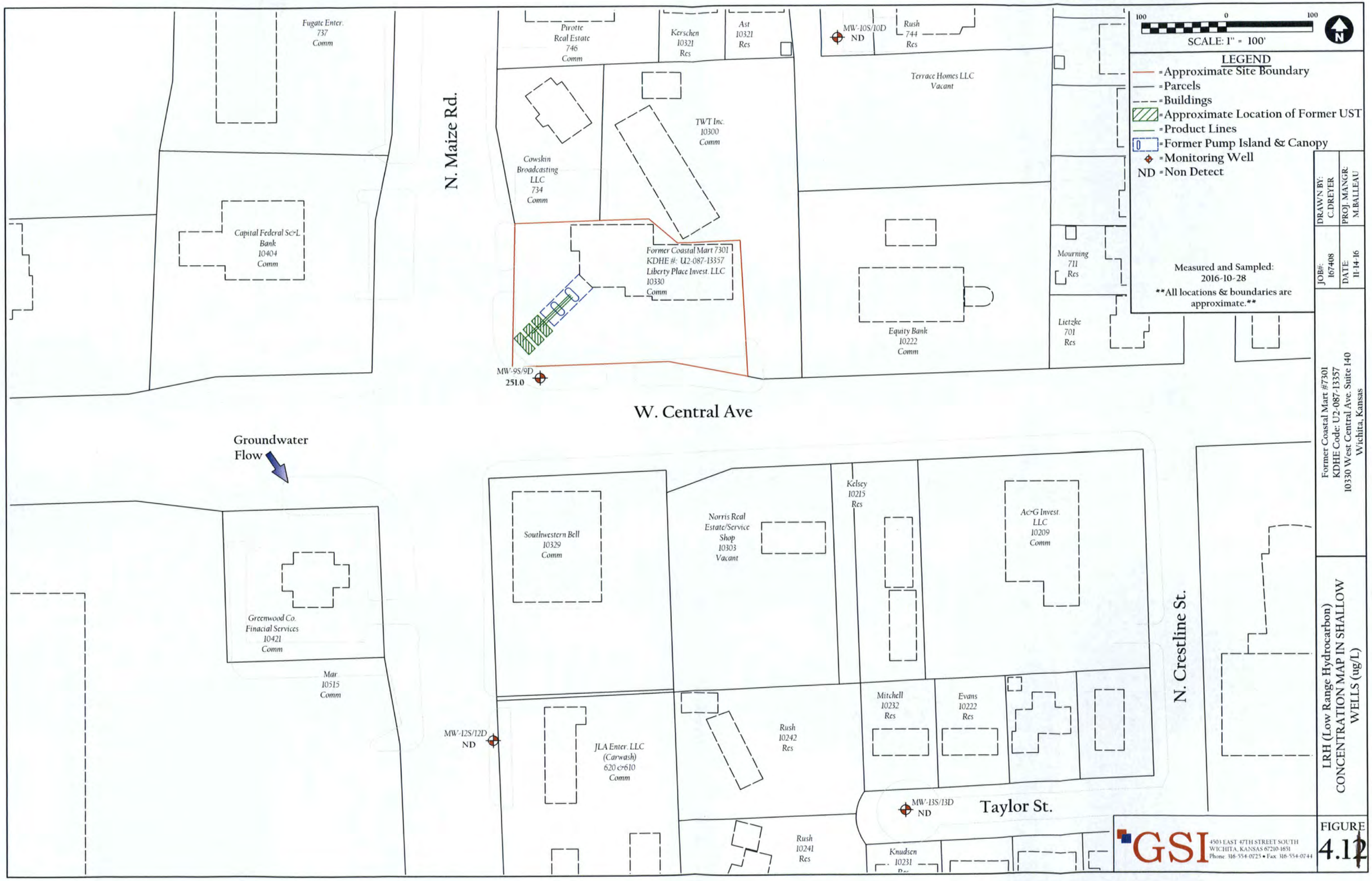
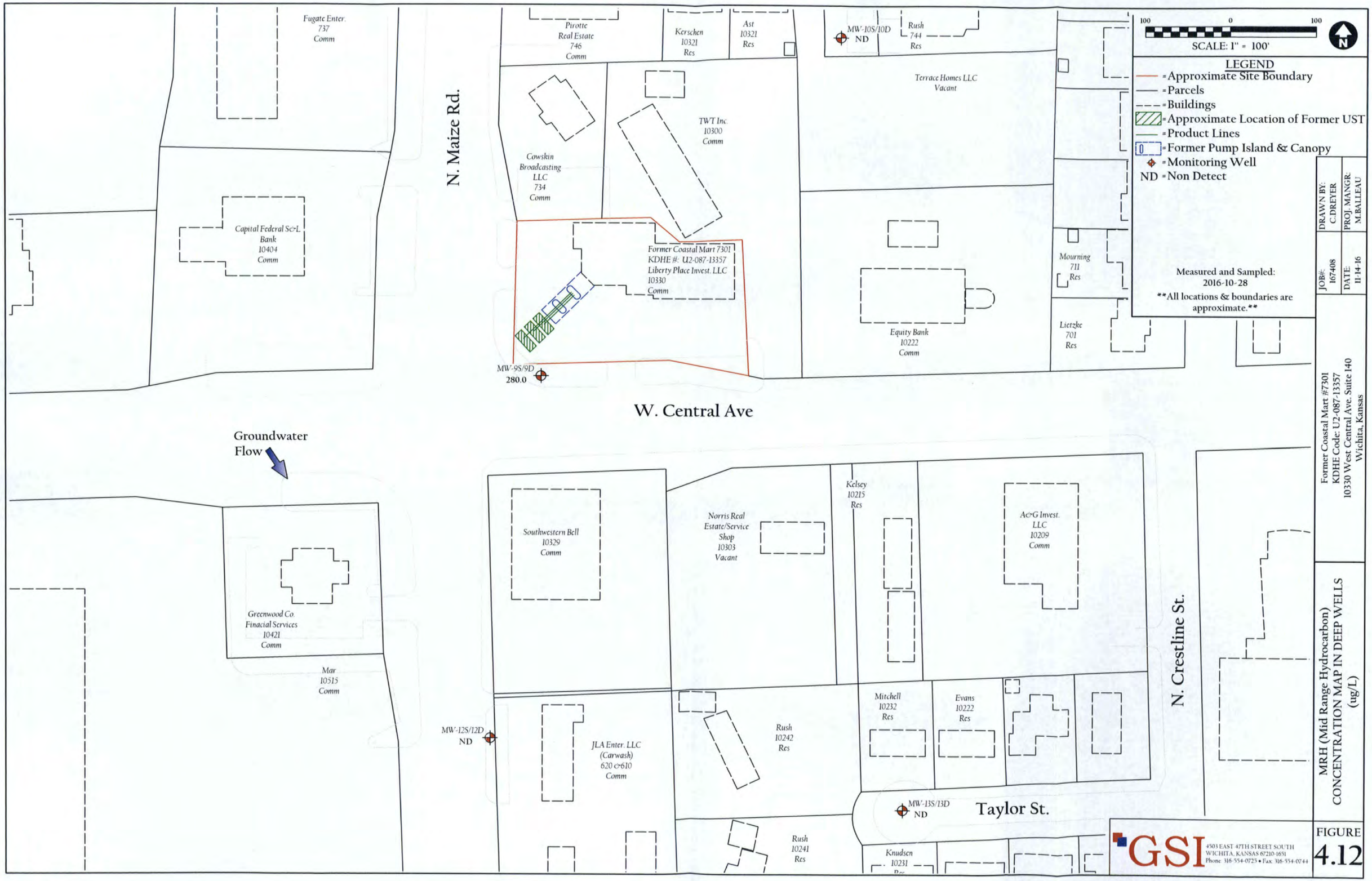
100
SCALE: 1" = 100'
N
LEGEND
= Approximate Site Boundary
= Parcels
= Buildings
= Approximate Location of Former UST
= Product Lines
= Former Pump Island & Canopy
= Monitoring Well
ND = Non Detect
Measured and Sampled:
2016-10-28
All locations & boundaries are approximate.
DRAWN BY: C.DREYER
PROJ. MANGR: M.BALLEAU
JOB#: 167408
DATE: 11-14-16
Former Coastal Mart #7301
KDHE Code: U2-087-13357
10330 West Central Ave. Suite 140
Wichita, Kansas
LRH (Low Range Hydrocarbon)
CONCENTRATION MAP IN DEEP WELLS
(ug/L)
GSI
4503 EAST 47TH STREET SOUTH
WICHITA, KANSAS 67210-1651
Phone 316-554-0725 • Fax 316-554-0744
FIGURE
4.10


Fugate Enter.
737
Comm
Capital Federal Sv-L
Bank
10404
Comm
N. Maize Rd.
Pirotte
Real Estate
746
Comm
Kerschen
10321
Res
Ast
10321
Res
MW-10S/10D
ND
Rush
744
Res
Terrace Homes LLC
Vacant
Cowskin
Broadcasting
LLC
734
Comm
TWT Inc.
10300
Comm
Former Coastal Mart 7301
KDHE #: U2-087-13357
Liberty Place Invest. LLC
10330
Comm
Equity Bank
10222
Comm
Mourning
711
Res
Lietzke
701
Res
MW-9S/9D
251.0
W. Central Ave
Groundwater
Flow
Greenwood Co.
Finacial Services
10421
Comm
Mar
10515
Comm
Southwestern Bell
10329
Comm
Norris Real
Estate/Service
Shop
10303
Vacant
Kelsey
10215
Res
Ac&G Invest.
LLC
10209
Comm
N. Crestline St.
MW-12S/12D
ND
JLA Enter. LLC
(Carwash)
620 &610
Comm
Rush
10242
Res
Mitchell
10232
Res
Evans
10222
Res
MW-13S/13D
ND
Taylor St.
Rush
10241
Res
Knudsen
10231
100
0
100
SCALE: 1" = 100'
N
LEGEND
=Approximate Site Boundary
=Parcels
=Buildings
=Approximate Location of Former UST
=Product Lines
=Former Pump Island & Canopy
=Monitoring Well
ND =Non Detect
Measured and Sampled:
2016-10-28
All locations & boundaries are approximate.
DRAWN BY: C.DREYER
PROJ. MANGR: M.BALLEAU
JOB#: 167408
DATE: 11-14-16
Former Coastal Mart #7301
KDHE Code: U2-087-13357
10330 West Central Ave. Suite 140
Wichita, Kansas
LRH (Low Range Hydrocarbon)
CONCENTRATION MAP IN SHALLOW
WELLS (ug/L)
GSI
4503 EAST 47TH STREET SOUTH
WICHITA, KANSAS 67210-1651
Phone: 316-554-0725 • Fax: 316-554-0744
FIGURE
4.12


Fugate Enter.
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N. Maize Rd.
Pirotte
Real Estate
746
Comm
Kerschen
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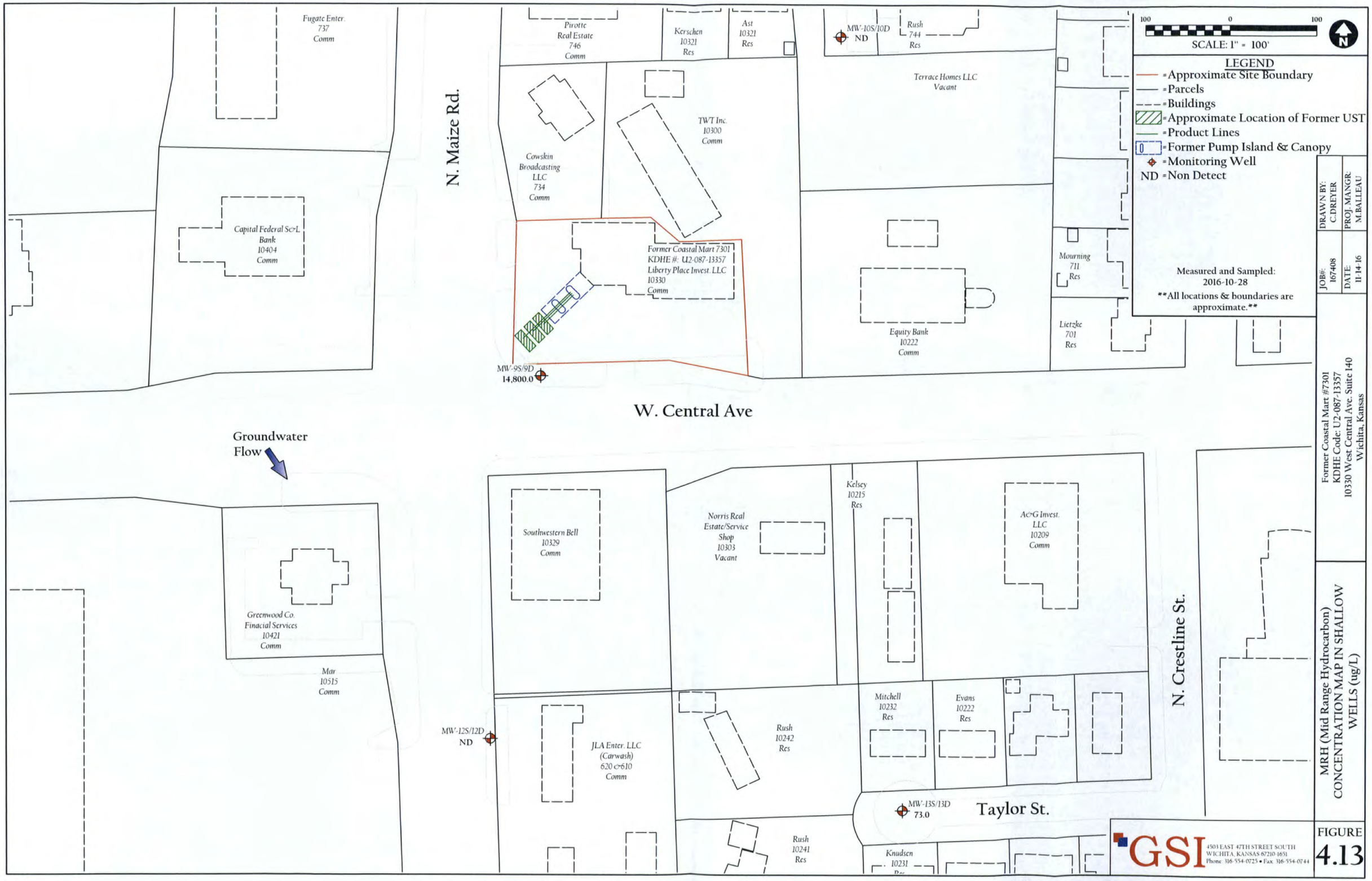
Res
Ast
10321
Res
MW-10S/10D
ND
Rush
744
Res
Terrace Homes LLC
Vacant
Cowskin
Broadcasting
LLC
734
Comm
TWT Inc.
10300
Comm
Former Coastal Mart 7301
KDHE #: U2-087-13357
Liberty Place Invest. LLC
10330
Comm
MW-9S/9D
280.0
Equity Bank
10222
Comm
Mourning
711
Res
Lietzke
701
Res
W. Central Ave
Groundwater
Flow
Greenwood Co.
Finacial Services
10421
Comm
Mar
10515
Comm
Southwestern Bell
10329
Comm
Norris Real
Estate/Service
Shop
10303
Vacant
Kelsey
10215
Res
Ac-G Invest.
LLC
10209
Comm
N. Crestline St.
MW-12S/12D
ND
JLA Enter. LLC
(Carwash)
620 &610
Comm
Rush
10242
Res
Mitchell
10232
Res
Evans
10222
Res
MW-13S/13D
ND
Taylor St.
Rush
10241
Res
Knudsen
10231
100
0
100
SCALE: 1" = 100'
N
LEGEND
= Approximate Site Boundary
= Parcels
= Buildings
= Approximate Location of Former UST
= Product Lines
= Former Pump Island & Canopy
= Monitoring Well
ND = Non Detect
Measured and Sampled:
2016-10-28
All locations & boundaries are approximate.
DRAWN BY: C.DREYER
PROJ. MANGR: M.BALLEAU
JOB#: 167408
DATE: 11-14-16
Former Coastal Mart #7301
KDHE Code: U2-087-13357
10330 West Central Ave. Suite 140
Wichita, Kansas
MRH (Mid Range Hydrocarbon)
CONCENTRATION MAP IN DEEP WELLS
(ug/L)
GSI
4503 EAST 47TH STREET SOUTH
WICHITA, KANSAS 67210-1651
Phone: 316-554-0725 • Fax: 316-554-0744
FIGURE
4.12


Fugate Enter.
737
Comm
Capital Federal Sv-L
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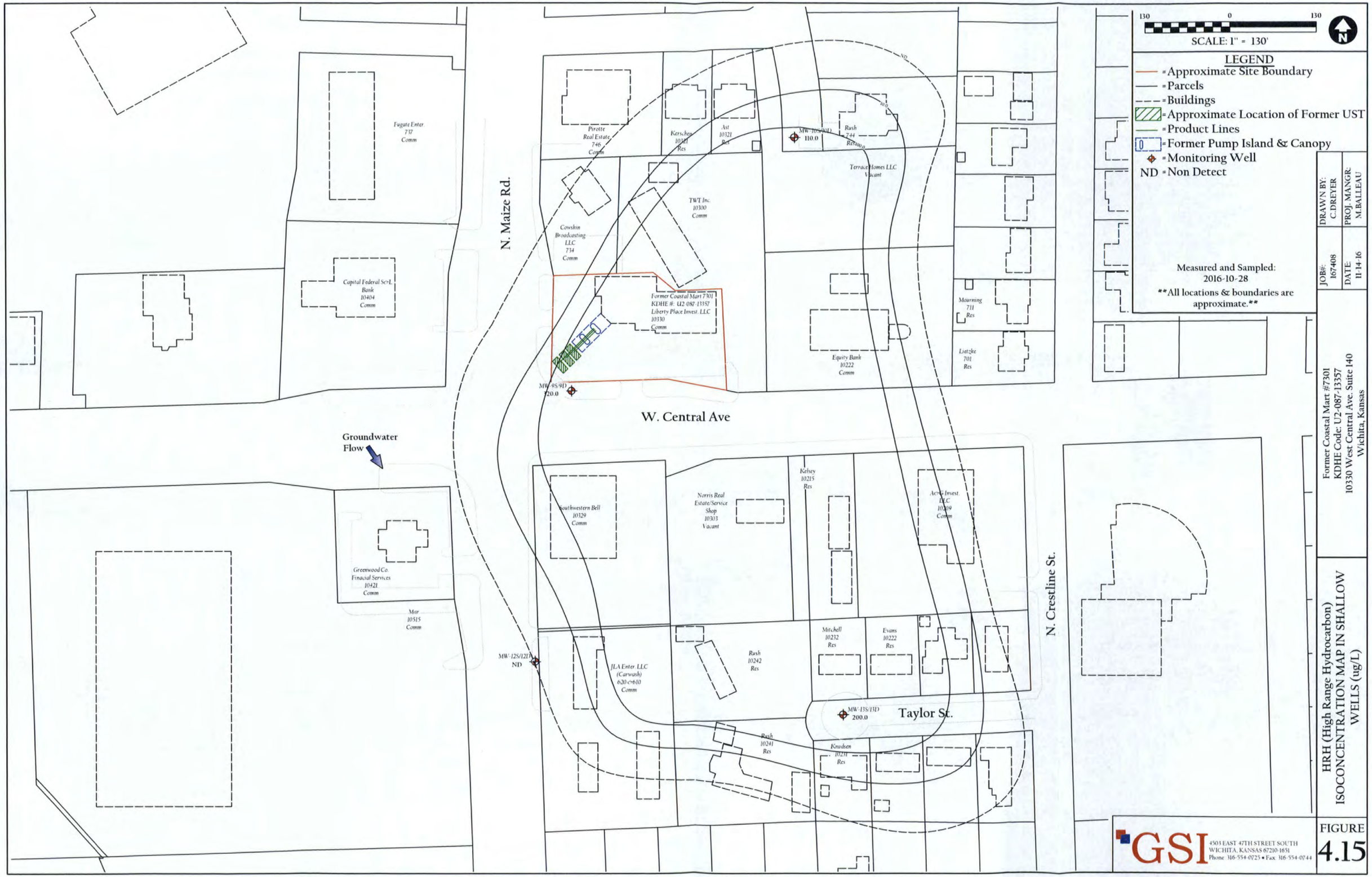
10404
Comm
N. Maize Rd.
Pirotte
Real Estate
746
Comm
Kerschen
10321
Res
Ast
10321
Res
MW-10S/10D
ND
Rush
744
Res
Terrace Homes LLC
Vacant
Cowskin
Broadcasting
LLC
734
Comm
TWT Inc.
10300
Comm
Former Coastal Mart 7301
KDHE #: U2-087-13357
Liberty Place Invest. LLC
10330
Comm
MW-9S/9D
14,800.0
Equity Bank
10222
Comm
Mourning
711
Res
Lietzke
701
Res
W. Central Ave
Groundwater
Flow
Greenwood Co.
Finacial Services
10421
Comm
Mar
10515
Comm
Southwestern Bell
10329
Comm
Norris Real
Estate/Service
Shop
10303
Vacant
Kelsey
10215
Res
A&G Invest.
LLC
10209
Comm
N. Crestline St.
MW-12S/12D
ND
JLA Enter. LLC
(Carwash)
620 & 610
Comm
Rush
10242
Res
Mitchell
10232
Res
Evans
10222
Res
MW-13S/13D
73.0
Taylor St.
Rush
10241
Res
Knudsen
10231
100
0
100
SCALE: 1" = 100'
N
LEGEND
=Approximate Site Boundary
=Parcels
=Buildings
=Approximate Location of Former UST
=Product Lines
=Former Pump Island & Canopy
=Monitoring Well
ND =Non Detect
Measured and Sampled:
2016-10-28
All locations & boundaries are approximate.
DRAWN BY: C.DREYER
PROJ. MANGR: M.BALLEAU
JOB#: 167408
DATE: 11-14-16
Former Coastal Mart #7301
KDHE Code: U2-087-13357
10330 West Central Ave. Suite 140
Wichita, Kansas
MRH (Mid Range Hydrocarbon)
CONCENTRATION MAP IN SHALLOW
WELLS (ug/L)
GSI
4503 EAST 47TH STREET SOUTH
WICHITA, KANSAS 67210-1651
Phone 316-554-0723 • Fax 316-554-0744
FIGURE
4.13

SCALE: 1" = 130'
130
0
130
N
LEGEND
= Approximate Site Boundary
= Parcels
= Buildings
= Approximate Location of Former UST
= Product Lines
= Former Pump Island & Canopy
= Monitoring Well
ND = Non Detect
Measured and Sampled:
2016-10-28
All locations & boundaries are approximate.
DRAWN BY: C.DREYER
PROJ. MANGR: M.BALLEAU
JOB#: 167408
DATE: 11-14-16
Former Coastal Mart #7301
KDHE Code: U2-087-13357
10330 West Central Ave. Suite 140
Wichita, Kansas
HRH (High Range Hydrocarbon)
ISOCONCENTRATION MAP IN DEEP WELLS
(ug/L)
FIGURE
4.14
GSI
4503 EAST 47TH STREET SOUTH
WICHITA, KANSAS 67210-1651
Phone 316-554-0725 • Fax 316-554-0744
N. Maize Rd.
W. Central Ave
N. Crestline St.
Taylor St.
Groundwater Flow
Fugate Enter. 737 Comm
Capital Federal Sv+L Bank 10404 Comm
Pirotte Real Estate 746 Comm
Kerschen 10321 Res
Ast 10321 Res
MW-10S/10D ND
Rush 744 Res
Terrace Homes LLC Vacant
TWT Inc. 10300 Comm
Cowskin Broadcasting LLC 734 Comm
Former Coastal Mart 7301 KDHE #: U2-087-13357 Liberty Place Invest. LLC 10330 Comm
MW-9S/9D ND
Equity Bank 10222 Comm
Mourning 711 Res
Lietzke 701 Res
Greenwood Co. Financial Services 10421 Comm
Mar 10515 Comm
Southwestern Bell 10329 Comm
Norris Real Estate/Service Shop 10303 Vacant
Kelsey 10215 Res
Ac+G Invest. LLC 10209 Comm
MW-12S/12D ND
JLA Enter. LLC (Carwash) 620 e+610 Comm
Rush 10242 Res
Mitchell 10212 Res
Evans 10222 Res
MW-13S/13D 130.0
Rush 10241 Res
Knudsen 10231 Res


130 0 130
SCALE: 1" = 130'
N
LEGEND
= Approximate Site Boundary
= Parcels
= Buildings
= Approximate Location of Former UST
= Product Lines
= Former Pump Island & Canopy
= Monitoring Well
ND = Non Detect
Measured and Sampled:
2016-10-28
All locations & boundaries are approximate.
DRAWN BY: C.DREYER
PROJ. MANGR: M.BALLEAU
JOB#: 167408
DATE: 11-14-16
Former Coastal Mart #7301
KDHE Code: U2-087-13357
10330 West Central Ave. Suite 140
Wichita, Kansas
HRH (High Range Hydrocarbon)
ISOCONCENTRATION MAP IN SHALLOW WELLS (ug/L)
FIGURE
4.15
GSI
4503 EAST 47TH STREET SOUTH
WICHITA, KANSAS 67210-1651
Phone: 316-554-0725 • Fax: 316-554-0744
N. Maize Rd.
W. Central Ave
N. Crestline St.
Taylor St.
Groundwater Flow
Fugate Enter. 737 Comm
Capital Federal Sv>L Bank 10404 Comm
Pirotte Real Estate 746 Comm
Kerschen 10321 Res
Ast 10321 Res
Rush 744 Res
Terrace Homes LLC Vacant
TWT Inc. 10300 Comm
Cowskin Broadcasting LLC 734 Comm
Former Coastal Mart 7301 KDHE #: U2-087-13357 Liberty Place Invest. LLC 10330 Comm
Mourning 711 Res
Equity Bank 10222 Comm
Lietzke 701 Res
Southwestern Bell 10329 Comm
Norris Real Estate/Service Shop 10303 Vacant
Kelsey 10215 Res
Acme Invest. LLC 10209 Comm
Greenwood Co. Finacial Services 10421 Comm
Mar 10515 Comm
JLA Enter. LLC (Carwash) 620 c>610 Comm
Rush 10242 Res
Mitchell 10232 Res
Evans 10222 Res
Rush 10241 Res
Knudsen 10231 Res
MW-105/10D 110.0
MW-95/9D 120.0
MW-12S/12D ND
MW-13S/13D 200.0

Boring Log / Monitoring Well Schematic MW-9D

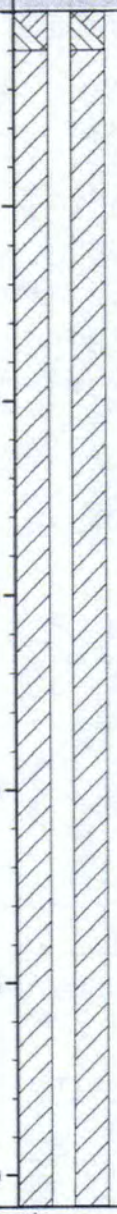
DATE DRILLED	LOCATION OF WELL	STATE I.D. No.	DRILLER	GEOLOGIST
10/20/16		NA	J. Lear	M. Balleau

TYPE OF SURFACE	DRILLING METHOD / SAMPLING METHOD	DRILL RIG
Grass	4.25"ID/8.25"OD Hollow Stem Auger / Split Spoon	CME-75

DEPTH (feet)	SAMPLE NO. & TYPE*	PID SAMPLE INTERVAL	REC. (%)	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION
0	S-1	0-2.5		0.0		LEAN CLAY (CL)- dark brown
	S-2					- brown
5	S-3	5-7.5		0.4		- red brown, some sand, intermittent gray
	S-4	7.5-10		0.8		- with sand (coarse, poorly sorted)
10	S-5					- no gray
	S-6	12.5-15		16.3		- strong hydrocarbon odor
15	S-7					- increasing sand quantity
	S-8					SANDY CLAY (CL)
20	S-9					
	S-10					LEAN CLAY (CL)- gray streaks
25	S-11					SANDY CLAY (CL)- light brown to red brown, moderate sand
	S-12					
30	S-13					

WELL CONSTRUCTION DETAILS

SCHEMATIC



CONSTRUCTION DETAILS

COORDINATES

Latitude: N 37.69393
Longitude: W 97.46245

ELEVATION

Casing: 1333.87
Pad: 1334.15

PROTECTIVE COVER

Type: Flushmount manhole
Size: 7x10"

PAD

Type: Concrete
Size: 2x2'

WELL SEAL/GROUT

Type: Bentonite
Amount:
Water:

WELL SEAL/GROUT

Type: NA
Amount:
Water:

WELL PACK

Type: 12-20 Sand
Amount: 300 lbs

RISER

Type: PVC
Schedule: 40
Inside Dia.: 2"

SCREEN

Type: PVC
Schedule: 40
Slot: 0.010
Inside Dia.: 2"

NOTES: Field screening equipment: MiniRAE USCS classifications determined by onsite visual observations only.

***SAMPLE TYPE**

Shelby Tube | Split Spoon | Auger | NX Core | Continuous Sampler | Macro-Core

WATER LEVEL MEASUREMENTS

While Drilling	End of Drilling	Static Level	Static Elev.	Datum	Static Date
16		19.02	1314.85'	TOC	10/28/16

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH TIME. DATA PRESENTED IS A SIMPLIFICATION.

BY: sw APPROV.: mb

GSI Engineering
4503 East 47th Street South
Wichita, KS 67210
316-554-0725

Former Coastal Mart #7301
10330 W. Central Ave.
Wichita, Kansas

BORING LOG / MONITOR WELL SCHEMATIC

PROJECT NO.: 167408 / KDHE Project Code: U2-087-13357

Boring Log / Monitoring Well Schematic MW-9D

DATE DRILLED	LOCATION OF WELL	STATE I.D. No.	DRILLER	GEOLOGIST
10/20/16		NA	J. Lear	M. Balleau

TYPE OF SURFACE	DRILLING METHOD / SAMPLING METHOD	DRILL RIG
Grass	4.25"ID/8.25"OD Hollow Stem Auger / Split Spoon	CME-75

DEPTH (feet)	SAMPLE DATA: SAMPLE NO. & TYPE*	PID SAMPLE INTERVAL	REC. (%)	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (feet)	WELL CONSTRUCTION DETAILS: SCHEMATIC	CONSTRUCTION DETAILS
	S-14								
35	S-15					- gray, significant sand	35		
	S-16								
40	S-17					CLAYEY SAND (SC)- well rounded, coarse, poorly sorted	40		
	S-18								
45	S-19						45		
	S-20					SAND (SW)			
50	S-21						50		
	S-22					- with intermittent clay			
55						Bottom of Boring @ 55'	55		
60							60		

NOTES: Field screening equipment: MiniRAE USCS classifications determined by onsite visual observations only.

*SAMPLE TYPE

Shelby Tube | Split Spoon | Auger | NX Core | Continuous Sampler | Macro-Core

WATER LEVEL MEASUREMENTS					
While Drilling	End of Drilling	Static Level	Static Elev.	Datum	Static Date
16		19.02	1314.85'	TOC	10/28/16

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH TIME. DATA PRESENTED IS A SIMPLIFICATION.

BY: sw APPROV.: mb

GSI Engineering
4503 East 47th Street South
Wichita, KS 67210
316-554-0725

Former Coastal Mart #7301
10330 W. Central Ave.
Wichita, Kansas

BORING LOG / MONITOR WELL SCHEMATIC

PROJECT NO.: 167408 / KDHE Project Code: U2-087-13357

Boring Log / Monitoring Well Schematic MW-10S

DATE DRILLED	LOCATION OF WELL	STATE I.D. No.	DRILLER	GEOLOGIST
10/25/16		NA	J. Lear	M. Balleau

TYPE OF SURFACE	DRILLING METHOD / SAMPLING METHOD	DRILL RIG
Grass	4.25"ID/8.25"OD Hollow Stem Auger / Split Spoon	CME-75

DEPTH (feet)	SAMPLE NO. & TYPE*	PID SAMPLE INTERVAL	REC. (%)	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION
0	S-1	0-2.5		0.0		LEAN CLAY (CL)- dark brown to red brown
	S-2					
5	S-3	5-7.5		0.0		SANDY CLAY (CL)- red brown to red, medium grained, rounded
	S-4	7.5-10		0.0		
10	S-5					
	S-6	12.5-15		0.1		- SAND lens at 12.5'
15	S-7	15-17.5		0.0		
	S-8	17.5-20		0.0		
20	S-9	20-17.5		0.0		
	S-10					
25	S-11	25-27.5		0.0		
	S-12					
30	S-13					- with intermittent SAND, rounded, coarse, poorly

WELL CONSTRUCTION DETAILS

DEPTH (feet): 0, 5, 10, 15, 20, 25, 30

SCHEMATIC

CONSTRUCTION DETAILS

COORDINATES

Latitude: N 37.69501
Longitude: W 97.46127

ELEVATION

Casing: 1346.68
Pad: 1347.16

PROTECTIVE COVER

Type: Flushmount manhole
Size: 7x10"

PAD

Type: Concrete
Size: 2x2'

WELL SEAL/GROUT

Type: Bentonite
Amount:
Water:

WELL SEAL/GROUT

Type: NA
Amount:
Water:

WELL PACK

Type: 12-20 Sand
Amount: 625 lbs

RISER

Type: PVC
Schedule: 40
Inside Dia.: 2"

SCREEN

Type: PVC
Schedule: 40
Slot: 0.010
Inside Dia.: 2"

NOTES: Field screening equipment: MiniRAE USCS classifications determined by onsite visual observations only.

***SAMPLE TYPE**

Shelby Tube | Split Spoon | Auger | NX Core | Continuous Sampler | Macro-Core

WATER LEVEL MEASUREMENTS

While Drilling	End of Drilling	Static Level	Static Elev.	Datum	Static Date
28		37.71	1308.97'	TOC	10/28/16

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH TIME. DATA PRESENTED IS A SIMPLIFICATION.

BY: sw APPROV.: mb

GSI Engineering
4503 East 47th Street South
Wichita, KS 67210
316-554-0725

Former Coastal Mart #7301
10330 W. Central Ave.
Wichita, Kansas

BORING LOG / MONITOR WELL SCHEMATIC

PROJECT NO.: 167408 / KDHE Project Code: U2-087-13357

Boring Log / Monitoring Well Schematic MW-10S

DATE DRILLED	LOCATION OF WELL	STATE I.D. No.	DRILLER	GEOLOGIST
10/25/16		NA	J. Lear	M. Balleau

TYPE OF SURFACE	DRILLING METHOD / SAMPLING METHOD	DRILL RIG
Grass	4.25"ID/8.25"OD Hollow Stem Auger / Split Spoon	CME-75

DEPTH (feet)	SAMPLE DATA: SAMPLE NO. & TYPE*	SAMPLE DATA: PID SAMPLE INTERVAL	SAMPLE DATA: REC. (%)	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (feet)	WELL CONSTRUCTION DETAILS: SCHEMATIC	WELL CONSTRUCTION DETAILS: CONSTRUCTION DETAILS
	S-14					sorted			
35						Bottom of Boring @ 35'	35		
40							40		
45							45		
50							50		
55							55		
60							60		

NOTES: Field screening equipment: MiniRAE USCS classifications determined by onsite visual observations only.

*SAMPLE TYPE

Shelby Tube | Split Spoon | Auger | NX Core | Continuous Sampler | Macro-Core

WATER LEVEL MEASUREMENTS					
While Drilling	End of Drilling	Static Level	Static Elev.	Datum	Static Date
28		37.71	1308.97'	TOC	10/28/16

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH TIME. DATA PRESENTED IS A SIMPLIFICATION.

BY: sw APPROV.: mb

GSI Engineering
4503 East 47th Street South
Wichita, KS 67210
316-554-0725

Former Coastal Mart #7301
10330 W. Central Ave.
Wichita, Kansas

BORING LOG / MONITOR WELL SCHEMATIC

PROJECT NO.: 167408 / KDHE Project Code: U2-087-13357

Boring Log / Monitoring Well Schematic MW-10D

DATE DRILLED	LOCATION OF WELL	STATE I.D. No.	DRILLER	GEOLOGIST
10/25/16		NA	J. Lear	M. Balleau

TYPE OF SURFACE	DRILLING METHOD / SAMPLING METHOD	DRILL RIG
Grass	4.25"ID/8.25"OD Hollow Stem Auger / Split Spoon	CME-55

DEPTH (feet)	SAMPLE NO. & TYPE*	PID SAMPLE INTERVAL	REC. (%)	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION
0	S-1	0-2.5		0.0		LEAN CLAY (CL)- dark brown to red brown, some gravel
	S-2					
5	S-3	5-7.5		0.0		SANDY CLAY (CL)- red brown, medium grained, rounded
	S-4	7.5-10		0.0		
10	S-5					
	S-6	12.5-15		0.0		- SAND from 12' to 12.3'
15	S-7	15-17.5		0.0		
	S-8					
20	S-9	20-22.5		0.0		
	S-10					
25	S-11	25-27.5		0.0		
	S-12					
30	S-13					SAND (SP)

WELL CONSTRUCTION DETAILS

SCHEMATIC

COORDINATES

Latitude: N 37.69502
Longitude: W 97.46127

ELEVATION

Casing: 1346.69
Pad: 1347.08

PROTECTIVE COVER

Type: Flushmount manhole
Size: 7x10"

PAD

Type: Concrete
Size: 2x2'

WELL SEAL/GROUT

Type: Bentonite
Amount: 700 lbs
Water:

WELL SEAL/GROUT

Type: NA
Amount:
Water:

WELL PACK

Type: 12-20 Sand
Amount: 275 lbs

RISER

Type: PVC
Schedule: 40
Inside Dia.: 2"

SCREEN

Type: PVC
Schedule: 40
Slot: 0.010
Inside Dia.: 2"

NOTES: Field screening equipment: MiniRAE USCS classifications determined by onsite visual observations only.

*SAMPLE TYPE

Shelby Tube, Split Spoon, Auger, NX Core, Continuous Sampler, Macro-Core

WATER LEVEL MEASUREMENTS

While Drilling	End of Drilling	Static Level	Static Elev.	Datum	Static Date
28.5 ▽	▽	33.25 ▽	1313.44'	TOC	10/28/16

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH TIME. DATA PRESENTED IS A SIMPLIFICATION.

BY: sw APPROV.: mb

GSI Engineering
4503 East 47th Street South
Wichita, KS 67210
316-554-0725

Former Coastal Mart #7301
10330 W. Central Ave.
Wichita, Kansas

BORING LOG / MONITOR WELL SCHEMATIC

PROJECT NO.: 167408 / KDHE Project Code: U2-087-13357

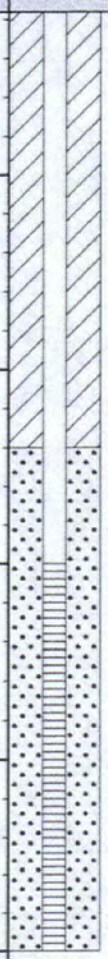
Boring Log / Monitoring Well Schematic MW-10D

DATE DRILLED	LOCATION OF WELL	STATE I.D. No.	DRILLER	GEOLOGIST
10/25/16		NA	J. Lear	M. Balleau

TYPE OF SURFACE	DRILLING METHOD / SAMPLING METHOD	DRILL RIG
Grass	4.25"ID/8.25"OD Hollow Stem Auger / Split Spoon	CME-55

DEPTH (feet)	SAMPLE DATA: SAMPLE NO. & TYPE*	PID SAMPLE INTERVAL	REC. (%)	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION
						SANDY CLAY (CL)- red brown, medium grained, rounded
						SAND (SP)
	S-14					SANDY CLAY (CL)- same as above
						SAND (SP)
35	S-15					SANDY CLAY (CL)- same as above
	S-16					- no sand
40	S-17					LEAN CLAY (CL)- tight, red brown
	S-18					SANDY CLAY (CL) red brown to gray
45	S-19					
						SAND (SW)- coarse grained, well rounded, poorly sorted
	S-20					
50	S-21					- intermittent 1-inch thick gray CLAY seams
	S-22					
55						Bottom of Boring @ 55'
60						

WELL CONSTRUCTION DETAILS



DEPTH (feet)	SCHEMATIC	CONSTRUCTION DETAILS
35		
40		
45		
50		
55		
60		

NOTES: Field screening equipment: MiniRAE USCS classifications determined by onsite visual observations only.

*SAMPLE TYPE

Shelby Tube | Split Spoon | Auger | NX Core | Continuous Sampler | Macro-Core

WATER LEVEL MEASUREMENTS

While Drilling	End of Drilling	Static Level	Static Elev.	Datum	Static Date
28.5 ▼	▼	33.25 ▼	1313.44'	TOC	10/28/16

GSI Engineering
4503 East 47th Street South
Wichita, KS 67210
316-554-0725

Former Coastal Mart #7301
10330 W. Central Ave.
Wichita, Kansas

BORING LOG / MONITOR WELL SCHEMATIC

PROJECT NO.: 167408 / KDHE Project Code: U2-087-13357

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH TIME. DATA PRESENTED IS A SIMPLIFICATION.

BY: sw APPROV.: mb

Boring Log / Monitoring Well Schematic MW-12S

DATE DRILLED	LOCATION OF WELL	STATE I.D. No.	DRILLER	GEOLOGIST
10/20/16		NA	J. Lear	M. Balleau

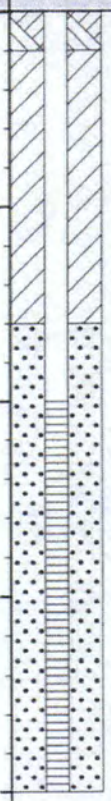
TYPE OF SURFACE	DRILLING METHOD / SAMPLING METHOD	DRILL RIG
Grass	4.25"ID/8.25"OD Hollow Stem Auger / Split Spoon	CME-75

DEPTH (feet)	SAMPLE NO. & TYPE*	PID SAMPLE INTERVAL	REC. (%)	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION
0	S-1	0-2.5		0.0		LEAN CLAY (CL)- topsoil, dark brown
	S-2					- brown
5	S-3	5-7.5		0.1		- trace sand
	S-4	7.5-10		0.0		- brown to light brown, with sand - light brown
10	S-5					- red brown, with sand
	S-6	12.5-15		0.0		
15	S-7					SANDY CLAY (CL)- red brown, coarse sand
	S-8					- sand prominent
20						Bottom of Boring @ 20'
25						
30						

WELL CONSTRUCTION DETAILS

DEPTH (feet): 0, 5, 10, 15, 20, 25, 30

SCHEMATIC



CONSTRUCTION DETAILS

COORDINATES

Latitude: N 37.69284
Longitude: W 97.46269

ELEVATION

Casing: 1326.08
Pad: 1326.40

PROTECTIVE COVER

Type: Flushmount manhole
Size: 7x10"

PAD

Type: Concrete
Size: 2x2'

WELL SEAL/GROUT

Type: Bentonite
Amount:
Water:

WELL SEAL/GROUT

Type: NA
Amount:
Water:

WELL PACK

Type: 12-20 Sand
Amount: 325 lbs

RISER

Type: PVC
Schedule: 40
Inside Dia.: 2"

SCREEN

Type: PVC
Schedule: 40
Slot: 0.010
Inside Dia.: 2"

NOTES: Field screening equipment: MiniRAE USCS classifications determined by onsite visual observations only.

***SAMPLE TYPE**

Shelby Tube | Split Spoon | Auger | NX Core | Continuous Sampler | Macro-Core

WATER LEVEL MEASUREMENTS

While Drilling	End of Drilling	Static Level	Static Elev.	Datum	Static Date
14 ▽	▼	11.40 ▼	1314.68'	TOC	10/28/16

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH TIME. DATA PRESENTED IS A SIMPLIFICATION.

BY: sw APPROV.: mb

GSI Engineering
4503 East 47th Street South
Wichita, KS 67210
316-554-0725

Former Coastal Mart #7301
10330 W. Central Ave.
Wichita, Kansas

BORING LOG / MONITOR WELL SCHEMATIC

PROJECT NO.: 167408 / KDHE Project Code: U2-087-13357

Boring Log / Monitoring Well Schematic MW-12D

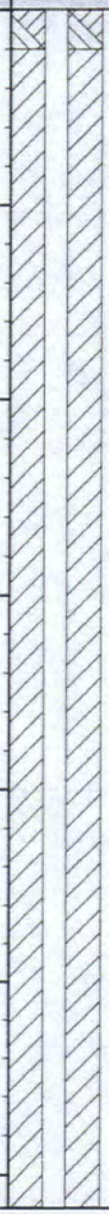
DATE DRILLED	LOCATION OF WELL	STATE I.D. No.	DRILLER	GEOLOGIST
10/20/16		NA	J. Lear	M. Balleau

TYPE OF SURFACE	DRILLING METHOD / SAMPLING METHOD	DRILL RIG
Grass	4.25"ID/8.25"OD Hollow Stem Auger / Split Spoon	CME-75

DEPTH (feet)	SAMPLE NO. & TYPE*	PID SAMPLE INTERVAL	REC. (%)	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION
0	S-1	0-2.5		0.0		LEAN CLAY (CL)- dark brown, topsoil
	S-2					- dark brown
5	S-3	5-7.5		0.0		- trace sand
	S-4	7.5-10		0.0		- light brown, trace sand
10	S-5					- brown
	S-6	12.5-15		0.4		- with some sand
15	S-7	15-17.5		0.0		SANDY CLAY (CL)- gray
	S-8					CLAYEY SAND (SC)- gray, saturated
20	S-9	20-22.5		0.0		
	S-10					
25	S-11	25-27.5		1.8		
	S-12					
						SAND (SP)- with gray silty/clay
						- encountered water
30	S-13					

WELL CONSTRUCTION DETAILS

SCHEMATIC



CONSTRUCTION DETAILS

COORDINATES

Latitude: N 37.69285
Longitude: W 97.46269

ELEVATION

Casing: 1326.09
Pad: 1326.45

PROTECTIVE COVER

Type: Flushmount manhole
Size: 7x10"

PAD

Type: Concrete
Size: 2x2'

WELL SEAL/GROUT

Type: Bentonite
Amount: 600 lbs
Water:

WELL SEAL/GROUT

Type: NA
Amount:
Water:

WELL PACK

Type: 12-20 Sand
Amount: 350 lbs

RISER

Type: PVC
Schedule: 40
Inside Dia.: 2"

SCREEN

Type: PVC
Schedule: 40
Slot: 0.010
Inside Dia.: 2"

NOTES: Field screening equipment: MiniRAE USCS classifications determined by onsite visual observations only.

***SAMPLE TYPE**

Shelby Tube | Split Spoon | Auger | NX Core | Continuous Sampler | Macro-Core

WATER LEVEL MEASUREMENTS

While Drilling	End of Drilling	Static Level	Static Elev.	Datum	Static Date
29 ▽	▼	11.58 ▼	1314.51'	TOC	10/28/16

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH TIME. DATA PRESENTED IS A SIMPLIFICATION.

BY: sw APPROV.: mb

GSI Engineering
4503 East 47th Street South
Wichita, KS 67210
316-554-0725

Former Coastal Mart #7301
10330 W. Central Ave.
Wichita, Kansas

BORING LOG / MONITOR WELL SCHEMATIC

PROJECT NO.: 167408 / KDHE Project Code: U2-087-13357

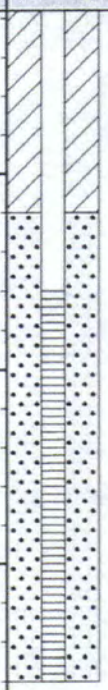
Boring Log / Monitoring Well Schematic MW-12D

DATE DRILLED	LOCATION OF WELL	STATE I.D. No.	DRILLER	GEOLOGIST
10/20/16		NA	J. Lear	M. Balleau

TYPE OF SURFACE	DRILLING METHOD / SAMPLING METHOD	DRILL RIG
Grass	4.25"ID/8.25"OD Hollow Stem Auger / Split Spoon	CME-75

DEPTH (feet)	SAMPLE DATA: SAMPLE NO. & TYPE*	PID SAMPLE INTERVAL	REC. (%)	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION
	S-14					- coarse grained, rounded
35	S-15					
	S-16					- packed sand and gravel SAND (SW)- coarse grained, rounded, poorly sorted
40	S-17					
	S-18					
45	S-19					
	S-20					
						Bottom of Boring @ 48'
50						
55						
60						

WELL CONSTRUCTION DETAILS

DEPTH (feet)	SCHEMATIC	CONSTRUCTION DETAILS
35		
40		
45		
50		
55		
60		

NOTES: Field screening equipment: MiniRAE USCS classifications determined by onsite visual observations only.

*SAMPLE TYPE

Shelby Tube | Split Spoon | Auger | NX Core | Continuous Sampler | Macro-Core

WATER LEVEL MEASUREMENTS

While Drilling	End of Drilling	Static Level	Static Elev.	Datum	Static Date
29 ▽	▽	11.58 ▽	1314.51'	TOC	10/28/16

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BY: sw APPROV.: mb

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Wichita, KS 67210
316-554-0725

Former Coastal Mart #7301
10330 W. Central Ave.
Wichita, Kansas

BORING LOG / MONITOR WELL SCHEMATIC

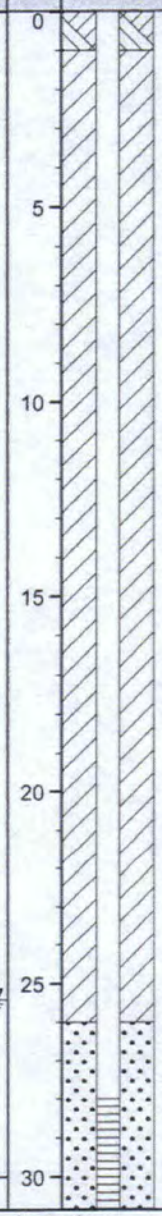
PROJECT NO.: 167408 / KDHE Project Code: U2-087-13357

Boring Log / Monitoring Well Schematic MW-13S

DATE DRILLED	LOCATION OF WELL	STATE I.D. No.	DRILLER	GEOLOGIST
10/18/16		NA	J. Lear	M. Balleau

TYPE OF SURFACE	DRILLING METHOD / SAMPLING METHOD	DRILL RIG
Grass	4.25"ID/8.25"OD Hollow Stem Auger / Split Spoon	CME-75

DEPTH (feet)	SAMPLE NO. & TYPE*	PID SAMPLE INTERVAL	REC. (%)	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION
0	S-1	0-2.5		0.0		LEAN CLAY (CL)- brown, trace sand
	S-2					- light brown, with some sand
5	S-3					- red brown, with some sand
	S-4	7.5-10		0.0		SANDY CLAY (CL)- red brown
10	S-5	10-12.5		0.0		
	S-6					
15	S-7	15-17.5		0.0		- packed SAND lens
	S-8					
20	S-9	20-22.5		0.0		
	S-10	22.5-25		0.0		
25	S-11					
	S-12	27.5-30		0.0		
30	S-13	30-32.5		0.0		SAND (SW)- poorly sorted, coarse, well rounded



WELL CONSTRUCTION DETAILS

COORDINATES

Latitude: N 37.69253
Longitude: W 97.46109

ELEVATION

Casing: 1339.55
Pad: 1339.81

PROTECTIVE COVER

Type: Flushmount manhole
Size: 7x10"

PAD

Type: Concrete
Size: 2x2'

WELL SEAL/GROUT

Type: Bentonite
Amount: 450 lbs
Water:

WELL SEAL/GROUT

Type: NA
Amount:
Water:

WELL PACK

Type: 12-20 Sand
Amount: 325 lbs

RISER

Type: PVC
Schedule: 40
Inside Dia.: 2"

SCREEN

Type: PVC
Schedule: 40
Slot: 0.010
Inside Dia.: 2"

NOTES: Field screening equipment: MiniRAE USCS classifications determined by onsite visual observations only.

*SAMPLE TYPE

Shelby Tube | Split Spoon | Auger | NX Core | Continuous Sampler | Macro-Core

WATER LEVEL MEASUREMENTS

While Drilling	End of Drilling	Static Level	Static Elev.	Datum	Static Date
27		25.42	1314.13'	TOC	10/28/16

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH TIME. DATA PRESENTED IS A SIMPLIFICATION.

BY: sw APPROV.: mb

GSI Engineering
4503 East 47th Street South
Wichita, KS 67210
316-554-0725

Former Coastal Mart #7301
10330 W. Central Ave.
Wichita, Kansas

BORING LOG / MONITOR WELL SCHEMATIC

PROJECT NO.: 167408 / KDHE Project Code: U2-087-13357

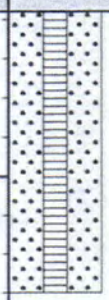
Boring Log / Monitoring Well Schematic MW-13S

DATE DRILLED	LOCATION OF WELL	STATE I.D. No.	DRILLER	GEOLOGIST
10/18/16		NA	J. Lear	M. Balleau

TYPE OF SURFACE	DRILLING METHOD / SAMPLING METHOD	DRILL RIG
Grass	4.25"ID/8.25"OD Hollow Stem Auger / Split Spoon	CME-75

DEPTH (feet)	SAMPLE NO. & TYPE*	PID SAMPLE INTERVAL	REC. (%)	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION
	S-14					
35	S-15	35-37.5		0.0		
	S-16					
						Bottom of Boring @ 38'
40						
45						
50						
55						
60						

WELL CONSTRUCTION DETAILS

DEPTH (feet)	SCHEMATIC	CONSTRUCTION DETAILS
35		
40		
45		
50		
55		
60		

NOTES: Field screening equipment: MiniRAE USCS classifications determined by onsite visual observations only.

*SAMPLE TYPE

Shelby Tube | Split Spoon | Auger | NX Core | Continuous Sampler | Macro-Core

WATER LEVEL MEASUREMENTS

While Drilling	End of Drilling	Static Level	Static Elev.	Datum	Static Date
27		25.42	1314.13'	TOC	10/28/16

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH TIME. DATA PRESENTED IS A SIMPLIFICATION.

BY: sw APPROV.: mb

GSI Engineering
4503 East 47th Street South
Wichita, KS 67210
316-554-0725

Former Coastal Mart #7301
10330 W. Central Ave.
Wichita, Kansas

BORING LOG / MONITOR WELL SCHEMATIC

PROJECT NO.: 167408 / KDHE Project Code: U2-087-13357

Boring Log / Monitoring Well Schematic MW-13D

DATE DRILLED	LOCATION OF WELL	STATE I.D. No.	DRILLER	GEOLOGIST
10/19/16		NA	J. Lear	M. Balleau

TYPE OF SURFACE	DRILLING METHOD / SAMPLING METHOD	DRILL RIG
Grass	4.25"ID/8.25"OD Hollow Stem Auger / Split Spoon	CME-75

DEPTH (feet)	SAMPLE NO. & TYPE*	PID SAMPLE INTERVAL	REC. (%)	PID (ppm)	MATERIAL DESCRIPTION
0	S-1	0-2.5		0.0	LEAN CLAY (CL)- brown, topsoil
	S-2				- brown, trace sand
5	S-3	5-7.5		0.0	- light brown, sand
	S-4				- red brown, trace sand
					SANDY CLAY (CL)- red brown
10	S-5	10-12.5		0.0	
	S-6	12.5-15		0.0	
15	S-7				
	S-8	17.5-20		0.0	
20	S-9	20-22.5		0.1	
	S-10				
25	S-11	25-27.5		0.0	
	S-12				SAND (SW)- poorly sorted, well rounded, red brown
30	S-13				

WELL CONSTRUCTION DETAILS

SCHEMATIC

COORDINATES

Latitude: N 37.69253
Longitude: W 97.46105

ELEVATION

Casing: 1339.31
Pad: 1339.60

PROTECTIVE COVER

Type: Flushmount manhole
Size: 7x10"

PAD

Type: Concrete
Size: 2x2'

WELL SEAL/GROUT

Type: Bentonite
Amount: 650 lbs
Water:

WELL SEAL/GROUT

Type: NA
Amount:
Water:

WELL PACK

Type: 12-20 Sand
Amount: 325 lbs

RISER

Type: PVC
Schedule: 40
Inside Dia.: 2"

SCREEN

Type: PVC
Schedule: 40
Slot: 0.010
Inside Dia.: 2"

NOTES: Field screening equipment: MiniRAE USCS classifications determined by onsite visual observations only.

***SAMPLE TYPE**

Shelby Tube | Split Spoon | Auger | NX Core | Continuous Sampler | Macro-Core

WATER LEVEL MEASUREMENTS

While Drilling	End of Drilling	Static Level	Static Elev.	Datum	Static Date
28		25.55	1313.76'	TOC	10/28/16

GSI Engineering
4503 East 47th Street South
Wichita, KS 67210
316-554-0725

Former Coastal Mart #7301
10330 W. Central Ave.
Wichita, Kansas

BORING LOG / MONITOR WELL SCHEMATIC

PROJECT NO.: 167408 / KDHE Project Code: U2-087-13357

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH TIME. DATA PRESENTED IS A SIMPLIFICATION.

BY: sw APPROV.: mb

Boring Log / Monitoring Well Schematic MW-13D

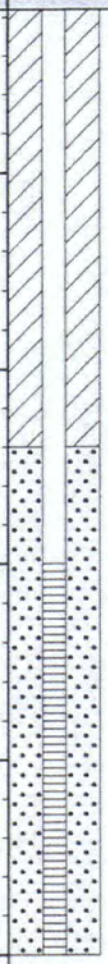
DATE DRILLED	LOCATION OF WELL	STATE I.D. No.	DRILLER	GEOLOGIST
10/19/16		NA	J. Lear	M. Balleau

TYPE OF SURFACE	DRILLING METHOD / SAMPLING METHOD	DRILL RIG
Grass	4.25"ID/8.25"OD Hollow Stem Auger / Split Spoon	CME-75

DEPTH (feet)	SAMPLE DATA: SAMPLE NO. & TYPE*	PID SAMPLE INTERVAL	REC. (%)	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION
	S-14					- light red, with silt
35	S-15					
	S-16					
40	S-17					
	S-18					
45	S-19					
	S-20					
50	S-21					
	S-22					
55						Bottom of Boring @ 55'
60						

WELL CONSTRUCTION DETAILS

DEPTH (feet)	SCHEMATIC	CONSTRUCTION DETAILS
35		
40		
45		
50		
55		
60		



NOTES: Field screening equipment: MiniRAE USCS classifications determined by onsite visual observations only.

*SAMPLE TYPE

Shelby Tube | Split Spoon | Auger | NX Core | Continuous Sampler | Macro-Core

WATER LEVEL MEASUREMENTS

While Drilling	End of Drilling	Static Level	Static Elev.	Datum	Static Date
28		25.55	1313.76'	TOC	10/28/16

THIS SUMMARY APPLIES ONLY AT THIS LOCATION AND AT THE TIME OF LOGGING. CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH TIME. DATA PRESENTED IS A SIMPLIFICATION.

BY: sw APPROV.: mb

GSI Engineering
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10330 W. Central Ave.
Wichita, Kansas

BORING LOG / MONITOR WELL SCHEMATIC

PROJECT NO.: 167408 / KDHE Project Code: U2-087-13357

5.0 DOCUMENTATION

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

November 04, 2016

Mike Balleau
GSI Engineering
4503 E 47th St South
Wichita, KS 67210

RE: Project: Coastal Mart
Pace Project No.: 60231211

Dear Mike Balleau:
Enclosed are the analytical results for sample(s) received by the laboratory on October 31, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Heather M. Wilson

Heather Wilson
heather.wilson@pacelabs.com
Project Manager

Enclosures

cc: Rick Bean, GSI

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, LLC
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: Coastal Mart
Pace Project No.: 60231211

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 15-016-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407
Utah Certification #: KS00021
Kansas Field Laboratory Accreditation: # E-92587
Missouri Certification: 10070

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Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: Coastal Mart
Pace Project No.: 60231211

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60231211001	MW-9S	Water	10/28/16 17:35	10/31/16 21:00
60231211002	MW-9D	Water	10/28/16 17:20	10/31/16 21:00
60231211003	MW-10S	Water	10/28/16 11:55	10/31/16 21:00
60231211004	MW-10D	Water	10/28/16 14:05	10/31/16 21:00
60231211005	MW-12S	Water	10/28/16 15:50	10/31/16 21:00
60231211006	MW-12D	Water	10/28/16 15:15	10/31/16 21:00
60231211007	MW-13S	Water	10/28/16 09:55	10/31/16 21:00
60231211008	MW-13D	Water	10/28/16 10:25	10/31/16 21:00
60231211009	TRIP BLANKS	Water	10/28/16 09:55	10/31/16 21:00

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SAMPLE ANALYTE COUNT

Project: Coastal Mart
Pace Project No.: 60231211

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60231211001	MW-9S	EPA 8011	ACW	1	PASI-K
		EPA 8015C	AJM	3	PASI-K
		EPA 8270C by SIM	NAW	18	PASI-K
		EPA 5030B/8260	PGH	69	PASI-K
		EPA 8260	JDH	5	PASI-K
60231211002	MW-9D	EPA 8011	ACW	1	PASI-K
		EPA 8015C	AJM	3	PASI-K
		EPA 8270C by SIM	NAW	18	PASI-K
		EPA 5030B/8260	PGH	69	PASI-K
		EPA 8260	JDH	5	PASI-K
60231211003	MW-10S	EPA 8011	ACW	1	PASI-K
		EPA 8015C	AJM	3	PASI-K
		EPA 8270C by SIM	NAW	18	PASI-K
		EPA 5030B/8260	PGH	69	PASI-K
		EPA 8260	JDH	5	PASI-K
60231211004	MW-10D	EPA 8011	ACW	1	PASI-K
		EPA 8015C	AJM	3	PASI-K
		EPA 8270C by SIM	NAW	18	PASI-K
		EPA 5030B/8260	PGH	69	PASI-K
		EPA 8260	JDH	5	PASI-K
60231211005	MW-12S	EPA 8011	ACW	1	PASI-K
		EPA 8015C	AJM	3	PASI-K
		EPA 8270C by SIM	NAW	18	PASI-K
		EPA 5030B/8260	PGH	69	PASI-K
		EPA 8260	JDH	5	PASI-K
60231211006	MW-12D	EPA 8011	ACW	1	PASI-K
		EPA 8015C	AJM	3	PASI-K
		EPA 8270C by SIM	NAW	18	PASI-K
		EPA 5030B/8260	PGH	69	PASI-K
		EPA 8260	JDH	5	PASI-K
60231211007	MW-13S	EPA 8011	ACW	1	PASI-K
		EPA 8015C	AJM	3	PASI-K
		EPA 8270C by SIM	NAW	18	PASI-K
		EPA 5030B/8260	PGH	69	PASI-K
		EPA 8260	JDH	5	PASI-K
60231211008	MW-13D	EPA 8011	ACW	1	PASI-K
		EPA 8015C	AJM	3	PASI-K

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SAMPLE ANALYTE COUNT

Project: Coastal Mart
Pace Project No.: 60231211

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8270C by SIM	NAW	18	PASI-K
		EPA 5030B/8260	PGH	69	PASI-K
		EPA 8260	JDH	5	PASI-K
60231211009	**TRIP BLANKS**	EPA 5030B/8260	PGH	9	PASI-K

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ANALYTICAL RESULTS

Project: Coastal Mart
Pace Project No.: 60231211

Sample: MW-9S **Lab ID: 60231211001** Collected: 10/28/16 17:35 Received: 10/31/16 21:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.030	1	11/02/16 10:51	11/02/16 20:38	106-93-4	
8015 MOD KS TPH	Analytical Method: EPA 8015C Preparation Method: EPA 3511							
HRH (C19-C35)	**0.32**	mg/L	0.080	1	11/03/16 00:00	11/04/16 14:30		
MRH (C9-C18)	**14.8**	mg/L	0.060	1	11/03/16 00:00	11/04/16 14:30		
Surrogates								
1-Chloro-octadecane (S)	66	%	40-140	1	11/03/16 00:00	11/04/16 14:30	3386-33-2	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	**1.6**	ug/L	0.091	1	11/02/16 00:00	11/02/16 15:45	83-32-9	1e
Acenaphthylene	**0.40**	ug/L	0.091	1	11/02/16 00:00	11/02/16 15:45	208-96-8	1e
Anthracene	**0.43**	ug/L	0.091	1	11/02/16 00:00	11/02/16 15:45	120-12-7	1e
Benzo(a)anthracene	**0.25**	ug/L	0.091	1	11/02/16 00:00	11/02/16 15:45	56-55-3	1e
Benzo(a)pyrene	**0.16**	ug/L	0.091	1	11/02/16 00:00	11/02/16 15:45	50-32-8	1e
Benzo(b)fluoranthene	**0.25**	ug/L	0.091	1	11/02/16 00:00	11/02/16 15:45	205-99-2	1e,3e
Benzo(g,h,i)perylene	**0.12**	ug/L	0.091	1	11/02/16 00:00	11/02/16 15:45	191-24-2	1e
Benzo(k)fluoranthene	**0.14**	ug/L	0.091	1	11/02/16 00:00	11/02/16 15:45	207-08-9	1e
Chrysene	**0.35**	ug/L	0.091	1	11/02/16 00:00	11/02/16 15:45	218-01-9	1e
Dibenz(a,h)anthracene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 15:45	53-70-3	1e
Fluoranthene	**1.1**	ug/L	0.45	1	11/02/16 00:00	11/02/16 15:45	206-44-0	1e
Fluorene	**2.0**	ug/L	0.091	1	11/02/16 00:00	11/02/16 15:45	86-73-7	1e
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 15:45	193-39-5	1e
Naphthalene	**167**	ug/L	11.4	25	11/02/16 00:00	11/02/16 20:14	91-20-3	1e
Phenanthrene	**2.1**	ug/L	0.45	1	11/02/16 00:00	11/02/16 15:45	85-01-8	1e
Pyrene	**1.0**	ug/L	0.091	1	11/02/16 00:00	11/02/16 15:45	129-00-0	1e
Surrogates								
2-Fluorobiphenyl (S)	76	%	39-85	1	11/02/16 00:00	11/02/16 15:45	321-60-8	
Terphenyl-d14 (S)	89	%	48-95	1	11/02/16 00:00	11/02/16 15:45	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	250	25		11/02/16 19:25	67-64-1	
Benzene	ND	ug/L	25.0	25		11/02/16 19:25	71-43-2	
Bromobenzene	ND	ug/L	25.0	25		11/02/16 19:25	108-86-1	
Bromochloromethane	ND	ug/L	25.0	25		11/02/16 19:25	74-97-5	
Bromodichloromethane	ND	ug/L	25.0	25		11/02/16 19:25	75-27-4	
Bromoform	ND	ug/L	25.0	25		11/02/16 19:25	75-25-2	
Bromomethane	ND	ug/L	125	25		11/02/16 19:25	74-83-9	
2-Butanone (MEK)	ND	ug/L	250	25		11/02/16 19:25	78-93-3	
n-Butylbenzene	**83.2**	ug/L	25.0	25		11/02/16 19:25	104-51-8	
sec-Butylbenzene	**26.5**	ug/L	25.0	25		11/02/16 19:25	135-98-8	
tert-Butylbenzene	ND	ug/L	25.0	25		11/02/16 19:25	98-06-6	
Carbon disulfide	ND	ug/L	125	25		11/02/16 19:25	75-15-0	
Carbon tetrachloride	ND	ug/L	25.0	25		11/02/16 19:25	56-23-5	
Chlorobenzene	ND	ug/L	25.0	25		11/02/16 19:25	108-90-7	
Chloroethane	ND	ug/L	25.0	25		11/02/16 19:25	75-00-3	
Chloroform	ND	ug/L	25.0	25		11/02/16 19:25	67-66-3	

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ANALYTICAL RESULTS

Project: Coastal Mart
Pace Project No.: 60231211

Sample: MW-9S **Lab ID: 60231211001** Collected: 10/28/16 17:35 Received: 10/31/16 21:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Chloromethane	ND	ug/L	25.0	25		11/02/16 19:25	74-87-3	
2-Chlorotoluene	ND	ug/L	25.0	25		11/02/16 19:25	95-49-8	
4-Chlorotoluene	ND	ug/L	25.0	25		11/02/16 19:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	62.5	25		11/02/16 19:25	96-12-8	
Dibromochloromethane	ND	ug/L	25.0	25		11/02/16 19:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	25.0	25		11/02/16 19:25	106-93-4	
Dibromomethane	ND	ug/L	25.0	25		11/02/16 19:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	25.0	25		11/02/16 19:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	25.0	25		11/02/16 19:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	25.0	25		11/02/16 19:25	106-46-7	
Dichlorodifluoromethane	ND	ug/L	25.0	25		11/02/16 19:25	75-71-8	
1,1-Dichloroethane	ND	ug/L	25.0	25		11/02/16 19:25	75-34-3	L2
1,2-Dichloroethane	ND	ug/L	25.0	25		11/02/16 19:25	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	25.0	25		11/02/16 19:25	540-59-0	
1,1-Dichloroethene	ND	ug/L	25.0	25		11/02/16 19:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	25.0	25		11/02/16 19:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	25.0	25		11/02/16 19:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	25.0	25		11/02/16 19:25	78-87-5	
1,3-Dichloropropane	ND	ug/L	25.0	25		11/02/16 19:25	142-28-9	
2,2-Dichloropropane	ND	ug/L	25.0	25		11/02/16 19:25	594-20-7	
1,1-Dichloropropene	ND	ug/L	25.0	25		11/02/16 19:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	25.0	25		11/02/16 19:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	25.0	25		11/02/16 19:25	10061-02-6	
Ethylbenzene	**909**	ug/L	25.0	25		11/02/16 19:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	25.0	25		11/02/16 19:25	87-68-3	
2-Hexanone	ND	ug/L	250	25		11/02/16 19:25	591-78-6	
Isopropylbenzene (Cumene)	**163**	ug/L	25.0	25		11/02/16 19:25	98-82-8	
p-Isopropyltoluene	ND	ug/L	25.0	25		11/02/16 19:25	99-87-6	
Methylene chloride	ND	ug/L	25.0	25		11/02/16 19:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	250	25		11/02/16 19:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	25.0	25		11/02/16 19:25	1634-04-4	
Naphthalene	**251**	ug/L	250	25		11/02/16 19:25	91-20-3	
n-Propylbenzene	**537**	ug/L	25.0	25		11/02/16 19:25	103-65-1	
Styrene	ND	ug/L	25.0	25		11/02/16 19:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	25.0	25		11/02/16 19:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	25.0	25		11/02/16 19:25	79-34-5	
Tetrachloroethene	ND	ug/L	25.0	25		11/02/16 19:25	127-18-4	
Toluene	ND	ug/L	25.0	25		11/02/16 19:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	25.0	25		11/02/16 19:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	25.0	25		11/02/16 19:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	25.0	25		11/02/16 19:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	25.0	25		11/02/16 19:25	79-00-5	
Trichloroethene	ND	ug/L	25.0	25		11/02/16 19:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	25.0	25		11/02/16 19:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	62.5	25		11/02/16 19:25	96-18-4	
1,2,4-Trimethylbenzene	**2120**	ug/L	25.0	25		11/02/16 19:25	95-63-6	
1,3,5-Trimethylbenzene	**585**	ug/L	25.0	25		11/02/16 19:25	108-67-8	

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ANALYTICAL RESULTS

Project: Coastal Mart
Pace Project No.: 60231211

Sample: MW-9S **Lab ID: 60231211001** Collected: 10/28/16 17:35 Received: 10/31/16 21:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Vinyl chloride	ND	ug/L	25.0	25		11/02/16 19:25	75-01-4	
Xylene (Total)	**1070**	ug/L	75.0	25		11/02/16 19:25	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	94	%	77-130	25		11/02/16 19:25	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	81-127	25		11/02/16 19:25	17060-07-0	
Toluene-d8 (S)	91	%	80-120	25		11/02/16 19:25	2037-26-5	
Preservation pH	**1.0**		0.10	25		11/02/16 19:25		
8260/KS TPH Water	Analytical Method: EPA 8260							
LRH (C5-C8)	**5.1**	mg/L	0.25	5		11/03/16 04:44		
Surrogates								
Toluene-d8 (S)	101	%	80-120	5		11/03/16 04:44	2037-26-5	
4-Bromofluorobenzene (S)	96	%	80-120	5		11/03/16 04:44	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	80-120	5		11/03/16 04:44	17060-07-0	
Preservation pH	**1.0**		0.10	5		11/03/16 04:44		

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ANALYTICAL RESULTS

Project: Coastal Mart
Pace Project No.: 60231211

Sample: MW-9D **Lab ID: 60231211002** Collected: 10/28/16 17:20 Received: 10/31/16 21:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.030	1	11/02/16 10:51	11/02/16 20:49	106-93-4	
8015 MOD KS TPH	Analytical Method: EPA 8015C Preparation Method: EPA 3511							
HRH (C19-C35)	ND	mg/L	0.080	1	11/03/16 00:00	11/04/16 14:38		
MRH (C9-C18)	**0.28**	mg/L	0.060	1	11/03/16 00:00	11/04/16 14:38		
Surrogates								
1-Chloro-octadecane (S)	91	%	40-140	1	11/03/16 00:00	11/04/16 14:38	3386-33-2	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:04	83-32-9	1e
Acenaphthylene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:04	208-96-8	1e
Anthracene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:04	120-12-7	1e
Benzo(a)anthracene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:04	56-55-3	1e
Benzo(a)pyrene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:04	50-32-8	1e
Benzo(b)fluoranthene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:04	205-99-2	1e
Benzo(g,h,i)perylene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:04	191-24-2	1e
Benzo(k)fluoranthene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:04	207-08-9	1e
Chrysene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:04	218-01-9	1e
Dibenz(a,h)anthracene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:04	53-70-3	1e
Fluoranthene	ND	ug/L	0.45	1	11/02/16 00:00	11/02/16 16:04	206-44-0	1e
Fluorene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:04	86-73-7	1e
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:04	193-39-5	1e
Naphthalene	**1.1**	ug/L	0.45	1	11/02/16 00:00	11/02/16 16:04	91-20-3	1e
Phenanthrene	ND	ug/L	0.45	1	11/02/16 00:00	11/02/16 16:04	85-01-8	1e
Pyrene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:04	129-00-0	1e
Surrogates								
2-Fluorobiphenyl (S)	85	%	39-85	1	11/02/16 00:00	11/02/16 16:04	321-60-8	
Terphenyl-d14 (S)	106	%	48-95	1	11/02/16 00:00	11/02/16 16:04	1718-51-0	S0
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/02/16 19:10	67-64-1	
Benzene	ND	ug/L	1.0	1		11/02/16 19:10	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/02/16 19:10	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/02/16 19:10	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/02/16 19:10	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/02/16 19:10	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/02/16 19:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/02/16 19:10	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		11/02/16 19:10	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/02/16 19:10	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		11/02/16 19:10	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		11/02/16 19:10	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/02/16 19:10	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/02/16 19:10	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/02/16 19:10	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/02/16 19:10	67-66-3	

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ANALYTICAL RESULTS

Project: Coastal Mart
Pace Project No.: 60231211

Sample: MW-9D **Lab ID: 60231211002** Collected: 10/28/16 17:20 Received: 10/31/16 21:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Chloromethane	ND	ug/L	1.0	1		11/02/16 19:10	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/02/16 19:10	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/02/16 19:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		11/02/16 19:10	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/02/16 19:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/02/16 19:10	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/02/16 19:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/02/16 19:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/02/16 19:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/02/16 19:10	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/02/16 19:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/02/16 19:10	75-34-3	L2
1,2-Dichloroethane	ND	ug/L	1.0	1		11/02/16 19:10	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/02/16 19:10	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/02/16 19:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/02/16 19:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/02/16 19:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/02/16 19:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/02/16 19:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/02/16 19:10	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/02/16 19:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/02/16 19:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/02/16 19:10	10061-02-6	
Ethylbenzene	**15.9**	ug/L	1.0	1		11/02/16 19:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/02/16 19:10	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		11/02/16 19:10	591-78-6	
Isopropylbenzene (Cumene)	**2.4**	ug/L	1.0	1		11/02/16 19:10	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/02/16 19:10	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/02/16 19:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/02/16 19:10	108-10-1	
Methyl-tert-butyl ether	**1.9**	ug/L	1.0	1		11/02/16 19:10	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		11/02/16 19:10	91-20-3	
n-Propylbenzene	**6.7**	ug/L	1.0	1		11/02/16 19:10	103-65-1	
Styrene	ND	ug/L	1.0	1		11/02/16 19:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/02/16 19:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/02/16 19:10	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/02/16 19:10	127-18-4	
Toluene	ND	ug/L	1.0	1		11/02/16 19:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/02/16 19:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/02/16 19:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/02/16 19:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/02/16 19:10	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/02/16 19:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/02/16 19:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		11/02/16 19:10	96-18-4	
1,2,4-Trimethylbenzene	**14.3**	ug/L	1.0	1		11/02/16 19:10	95-63-6	
1,3,5-Trimethylbenzene	**5.7**	ug/L	1.0	1		11/02/16 19:10	108-67-8	

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ANALYTICAL RESULTS

Project: Coastal Mart
Pace Project No.: 60231211

Sample: MW-9D **Lab ID: 60231211002** Collected: 10/28/16 17:20 Received: 10/31/16 21:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Vinyl chloride	ND	ug/L	1.0	1		11/02/16 19:10	75-01-4	
Xylene (Total)	**14.0**	ug/L	3.0	1		11/02/16 19:10	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	86	%	77-130	1		11/02/16 19:10	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	81-127	1		11/02/16 19:10	17060-07-0	
Toluene-d8 (S)	99	%	80-120	1		11/02/16 19:10	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/02/16 19:10		
8260/KS TPH Water	Analytical Method: EPA 8260							
LRH (C5-C8)	**0.094**	mg/L	0.050	1		11/03/16 04:59		
Surrogates								
Toluene-d8 (S)	101	%	80-120	1		11/03/16 04:59	2037-26-5	
4-Bromofluorobenzene (S)	101	%	80-120	1		11/03/16 04:59	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120	1		11/03/16 04:59	17060-07-0	
Preservation pH	**1.0**		0.10	1		11/03/16 04:59		

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ANALYTICAL RESULTS

Project: Coastal Mart
Pace Project No.: 60231211

Sample: MW-10S **Lab ID: 60231211003** Collected: 10/28/16 11:55 Received: 10/31/16 21:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.030	1	11/02/16 10:51	11/02/16 21:01	106-93-4	
8015 MOD KS TPH	Analytical Method: EPA 8015C Preparation Method: EPA 3511							
HRH (C19-C35)	**0.11**	mg/L	0.083	1	11/03/16 00:00	11/04/16 14:46		
MRH (C9-C18)	ND	mg/L	0.062	1	11/03/16 00:00	11/04/16 14:46		
Surrogates								
1-Chloro-octadecane (S)	33	%	40-140	1	11/03/16 00:00	11/04/16 14:46	3386-33-2	2e
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:23	83-32-9	1e
Acenaphthylene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:23	208-96-8	1e
Anthracene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:23	120-12-7	1e
Benzo(a)anthracene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:23	56-55-3	1e
Benzo(a)pyrene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:23	50-32-8	1e
Benzo(b)fluoranthene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:23	205-99-2	1e
Benzo(g,h,i)perylene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:23	191-24-2	1e
Benzo(k)fluoranthene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:23	207-08-9	1e
Chrysene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:23	218-01-9	1e
Dibenz(a,h)anthracene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:23	53-70-3	1e
Fluoranthene	ND	ug/L	0.45	1	11/02/16 00:00	11/02/16 16:23	206-44-0	1e
Fluorene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:23	86-73-7	1e
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:23	193-39-5	1e
Naphthalene	ND	ug/L	0.45	1	11/02/16 00:00	11/02/16 16:23	91-20-3	1e
Phenanthrene	ND	ug/L	0.45	1	11/02/16 00:00	11/02/16 16:23	85-01-8	1e
Pyrene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:23	129-00-0	1e
Surrogates								
2-Fluorobiphenyl (S)	71	%	39-85	1	11/02/16 00:00	11/02/16 16:23	321-60-8	
Terphenyl-d14 (S)	96	%	48-95	1	11/02/16 00:00	11/02/16 16:23	1718-51-0	S3
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/02/16 17:43	67-64-1	
Benzene	ND	ug/L	1.0	1		11/02/16 17:43	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/02/16 17:43	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/02/16 17:43	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/02/16 17:43	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/02/16 17:43	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/02/16 17:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/02/16 17:43	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		11/02/16 17:43	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/02/16 17:43	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		11/02/16 17:43	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		11/02/16 17:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/02/16 17:43	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/02/16 17:43	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/02/16 17:43	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/02/16 17:43	67-66-3	

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ANALYTICAL RESULTS

Project: Coastal Mart
Pace Project No.: 60231211

Sample: MW-10S **Lab ID: 60231211003** Collected: 10/28/16 11:55 Received: 10/31/16 21:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Chloromethane	ND	ug/L	1.0	1		11/02/16 17:43	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/02/16 17:43	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/02/16 17:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		11/02/16 17:43	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/02/16 17:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/02/16 17:43	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/02/16 17:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/02/16 17:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/02/16 17:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/02/16 17:43	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/02/16 17:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/02/16 17:43	75-34-3	L2
1,2-Dichloroethane	ND	ug/L	1.0	1		11/02/16 17:43	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/02/16 17:43	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/02/16 17:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/02/16 17:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/02/16 17:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/02/16 17:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/02/16 17:43	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/02/16 17:43	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/02/16 17:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/02/16 17:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/02/16 17:43	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		11/02/16 17:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/02/16 17:43	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		11/02/16 17:43	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/02/16 17:43	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/02/16 17:43	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/02/16 17:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/02/16 17:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/02/16 17:43	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		11/02/16 17:43	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		11/02/16 17:43	103-65-1	
Styrene	ND	ug/L	1.0	1		11/02/16 17:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/02/16 17:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/02/16 17:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/02/16 17:43	127-18-4	
Toluene	ND	ug/L	1.0	1		11/02/16 17:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/02/16 17:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/02/16 17:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/02/16 17:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/02/16 17:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/02/16 17:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/02/16 17:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		11/02/16 17:43	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/02/16 17:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/02/16 17:43	108-67-8	

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ANALYTICAL RESULTS

Project: Coastal Mart
Pace Project No.: 60231211

Sample: MW-10S **Lab ID: 60231211003** Collected: 10/28/16 11:55 Received: 10/31/16 21:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Vinyl chloride	ND	ug/L	1.0	1		11/02/16 17:43	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/02/16 17:43	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	91	%	77-130	1		11/02/16 17:43	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	81-127	1		11/02/16 17:43	17060-07-0	
Toluene-d8 (S)	105	%	80-120	1		11/02/16 17:43	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/02/16 17:43		
8260/KS TPH Water	Analytical Method: EPA 8260							
LRH (C5-C8)	ND	mg/L	0.050	1		11/03/16 05:14		
Surrogates								
Toluene-d8 (S)	102	%	80-120	1		11/03/16 05:14	2037-26-5	
4-Bromofluorobenzene (S)	102	%	80-120	1		11/03/16 05:14	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120	1		11/03/16 05:14	17060-07-0	
Preservation pH	**1.0**		0.10	1		11/03/16 05:14		

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ANALYTICAL RESULTS

Project: Coastal Mart
Pace Project No.: 60231211

Sample: MW-10D **Lab ID: 60231211004** Collected: 10/28/16 14:05 Received: 10/31/16 21:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.030	1	11/02/16 10:51	11/02/16 21:12	106-93-4	
8015 MOD KS TPH	Analytical Method: EPA 8015C Preparation Method: EPA 3511							
HRH (C19-C35)	ND	mg/L	0.079	1	11/03/16 00:00	11/04/16 14:54		
MRH (C9-C18)	ND	mg/L	0.059	1	11/03/16 00:00	11/04/16 14:54		
Surrogates								
1-Chloro-octadecane (S)	50	%	40-140	1	11/03/16 00:00	11/04/16 14:54	3386-33-2	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:42	83-32-9	1e
Acenaphthylene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:42	208-96-8	1e
Anthracene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:42	120-12-7	1e
Benzo(a)anthracene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:42	56-55-3	1e
Benzo(a)pyrene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:42	50-32-8	1e
Benzo(b)fluoranthene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:42	205-99-2	1e
Benzo(g,h,i)perylene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:42	191-24-2	1e
Benzo(k)fluoranthene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:42	207-08-9	1e
Chrysene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:42	218-01-9	1e
Dibenz(a,h)anthracene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:42	53-70-3	1e
Fluoranthene	ND	ug/L	0.45	1	11/02/16 00:00	11/02/16 16:42	206-44-0	1e
Fluorene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:42	86-73-7	1e
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:42	193-39-5	1e
Naphthalene	ND	ug/L	0.45	1	11/02/16 00:00	11/02/16 16:42	91-20-3	1e
Phenanthrene	ND	ug/L	0.45	1	11/02/16 00:00	11/02/16 16:42	85-01-8	1e
Pyrene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 16:42	129-00-0	1e
Surrogates								
2-Fluorobiphenyl (S)	91	%	39-85	1	11/02/16 00:00	11/02/16 16:42	321-60-8	S3
Terphenyl-d14 (S)	105	%	48-95	1	11/02/16 00:00	11/02/16 16:42	1718-51-0	S3
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/02/16 17:58	67-64-1	
Benzene	ND	ug/L	1.0	1		11/02/16 17:58	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/02/16 17:58	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/02/16 17:58	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/02/16 17:58	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/02/16 17:58	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/02/16 17:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/02/16 17:58	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		11/02/16 17:58	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/02/16 17:58	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		11/02/16 17:58	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		11/02/16 17:58	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/02/16 17:58	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/02/16 17:58	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/02/16 17:58	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/02/16 17:58	67-66-3	

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ANALYTICAL RESULTS

Project: Coastal Mart
Pace Project No.: 60231211

Sample: MW-10D **Lab ID: 60231211004** Collected: 10/28/16 14:05 Received: 10/31/16 21:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Chloromethane	ND	ug/L	1.0	1		11/02/16 17:58	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/02/16 17:58	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/02/16 17:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		11/02/16 17:58	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/02/16 17:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/02/16 17:58	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/02/16 17:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/02/16 17:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/02/16 17:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/02/16 17:58	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/02/16 17:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/02/16 17:58	75-34-3	L2
1,2-Dichloroethane	ND	ug/L	1.0	1		11/02/16 17:58	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/02/16 17:58	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/02/16 17:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/02/16 17:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/02/16 17:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/02/16 17:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/02/16 17:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/02/16 17:58	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/02/16 17:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/02/16 17:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/02/16 17:58	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		11/02/16 17:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/02/16 17:58	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		11/02/16 17:58	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/02/16 17:58	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/02/16 17:58	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/02/16 17:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/02/16 17:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/02/16 17:58	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		11/02/16 17:58	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		11/02/16 17:58	103-65-1	
Styrene	ND	ug/L	1.0	1		11/02/16 17:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/02/16 17:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/02/16 17:58	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/02/16 17:58	127-18-4	
Toluene	ND	ug/L	1.0	1		11/02/16 17:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/02/16 17:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/02/16 17:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/02/16 17:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/02/16 17:58	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/02/16 17:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/02/16 17:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		11/02/16 17:58	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/02/16 17:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/02/16 17:58	108-67-8	

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ANALYTICAL RESULTS

Project: Coastal Mart
Pace Project No.: 60231211

Sample: MW-10D **Lab ID: 60231211004** Collected: 10/28/16 14:05 Received: 10/31/16 21:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Vinyl chloride	ND	ug/L	1.0	1		11/02/16 17:58	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/02/16 17:58	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	90	%	77-130	1		11/02/16 17:58	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	81-127	1		11/02/16 17:58	17060-07-0	
Toluene-d8 (S)	100	%	80-120	1		11/02/16 17:58	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/02/16 17:58		
8260/KS TPH Water	Analytical Method: EPA 8260							
LRH (C5-C8)	ND	mg/L	0.050	1		11/03/16 05:29		
Surrogates								
Toluene-d8 (S)	101	%	80-120	1		11/03/16 05:29	2037-26-5	
4-Bromofluorobenzene (S)	110	%	80-120	1		11/03/16 05:29	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	80-120	1		11/03/16 05:29	17060-07-0	
Preservation pH	**1.0**		0.10	1		11/03/16 05:29		

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ANALYTICAL RESULTS

Project: Coastal Mart
Pace Project No.: 60231211

Sample: MW-12S **Lab ID: 60231211005** Collected: 10/28/16 15:50 Received: 10/31/16 21:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.030	1	11/02/16 10:51	11/02/16 21:24	106-93-4	
8015 MOD KS TPH	Analytical Method: EPA 8015C Preparation Method: EPA 3511							
HRH (C19-C35)	ND	mg/L	0.080	1	11/03/16 00:00	11/04/16 15:03		
MRH (C9-C18)	ND	mg/L	0.060	1	11/03/16 00:00	11/04/16 15:03		
Surrogates								
1-Chloro-octadecane (S)	52	%	40-140	1	11/03/16 00:00	11/04/16 15:03	3386-33-2	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:01	83-32-9	1e
Acenaphthylene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:01	208-96-8	1e
Anthracene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:01	120-12-7	1e
Benzo(a)anthracene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:01	56-55-3	1e
Benzo(a)pyrene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:01	50-32-8	1e
Benzo(b)fluoranthene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:01	205-99-2	1e
Benzo(g,h,i)perylene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:01	191-24-2	1e
Benzo(k)fluoranthene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:01	207-08-9	1e
Chrysene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:01	218-01-9	1e
Dibenz(a,h)anthracene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:01	53-70-3	1e
Fluoranthene	ND	ug/L	0.45	1	11/02/16 00:00	11/02/16 17:01	206-44-0	1e
Fluorene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:01	86-73-7	1e
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:01	193-39-5	1e
Naphthalene	ND	ug/L	0.45	1	11/02/16 00:00	11/02/16 17:01	91-20-3	1e
Phenanthrene	ND	ug/L	0.45	1	11/02/16 00:00	11/02/16 17:01	85-01-8	1e
Pyrene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:01	129-00-0	1e
Surrogates								
2-Fluorobiphenyl (S)	96	%	39-85	1	11/02/16 00:00	11/02/16 17:01	321-60-8	S3
Terphenyl-d14 (S)	104	%	48-95	1	11/02/16 00:00	11/02/16 17:01	1718-51-0	S3
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/02/16 18:12	67-64-1	
Benzene	ND	ug/L	1.0	1		11/02/16 18:12	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/02/16 18:12	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/02/16 18:12	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/02/16 18:12	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/02/16 18:12	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/02/16 18:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/02/16 18:12	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		11/02/16 18:12	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/02/16 18:12	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		11/02/16 18:12	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		11/02/16 18:12	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/02/16 18:12	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/02/16 18:12	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/02/16 18:12	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/02/16 18:12	67-66-3	

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ANALYTICAL RESULTS

Project: Coastal Mart
Pace Project No.: 60231211

Sample: MW-12S **Lab ID: 60231211005** Collected: 10/28/16 15:50 Received: 10/31/16 21:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Chloromethane	ND	ug/L	1.0	1		11/02/16 18:12	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/02/16 18:12	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/02/16 18:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		11/02/16 18:12	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/02/16 18:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/02/16 18:12	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/02/16 18:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/02/16 18:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/02/16 18:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/02/16 18:12	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/02/16 18:12	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/02/16 18:12	75-34-3	L2
1,2-Dichloroethane	ND	ug/L	1.0	1		11/02/16 18:12	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/02/16 18:12	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/02/16 18:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/02/16 18:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/02/16 18:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/02/16 18:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/02/16 18:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/02/16 18:12	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/02/16 18:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/02/16 18:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/02/16 18:12	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		11/02/16 18:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/02/16 18:12	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		11/02/16 18:12	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/02/16 18:12	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/02/16 18:12	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/02/16 18:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/02/16 18:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/02/16 18:12	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		11/02/16 18:12	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		11/02/16 18:12	103-65-1	
Styrene	ND	ug/L	1.0	1		11/02/16 18:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/02/16 18:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/02/16 18:12	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/02/16 18:12	127-18-4	
Toluene	ND	ug/L	1.0	1		11/02/16 18:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/02/16 18:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/02/16 18:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/02/16 18:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/02/16 18:12	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/02/16 18:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/02/16 18:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		11/02/16 18:12	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/02/16 18:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/02/16 18:12	108-67-8	

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ANALYTICAL RESULTS

Project: Coastal Mart
Pace Project No.: 60231211

Sample: MW-12S **Lab ID: 60231211005** Collected: 10/28/16 15:50 Received: 10/31/16 21:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Vinyl chloride	ND	ug/L	1.0	1		11/02/16 18:12	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/02/16 18:12	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	92	%	77-130	1		11/02/16 18:12	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	81-127	1		11/02/16 18:12	17060-07-0	
Toluene-d8 (S)	99	%	80-120	1		11/02/16 18:12	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/02/16 18:12		
8260/KS TPH Water	Analytical Method: EPA 8260							
LRH (C5-C8)	ND	mg/L	0.050	1		11/03/16 05:44		
Surrogates								
Toluene-d8 (S)	102	%	80-120	1		11/03/16 05:44	2037-26-5	
4-Bromofluorobenzene (S)	102	%	80-120	1		11/03/16 05:44	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120	1		11/03/16 05:44	17060-07-0	
Preservation pH	**1.0**		0.10	1		11/03/16 05:44		

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ANALYTICAL RESULTS

Project: Coastal Mart
Pace Project No.: 60231211

Sample: MW-12D **Lab ID: 60231211006** Collected: 10/28/16 15:15 Received: 10/31/16 21:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.030	1	11/02/16 10:51	11/02/16 21:58	106-93-4	
8015 MOD KS TPH	Analytical Method: EPA 8015C Preparation Method: EPA 3511							
HRH (C19-C35)	ND	mg/L	0.083	1	11/03/16 00:00	11/04/16 15:11		
MRH (C9-C18)	ND	mg/L	0.062	1	11/03/16 00:00	11/04/16 15:11		
Surrogates								
1-Chloro-octadecane (S)	95	%	40-140	1	11/03/16 00:00	11/04/16 15:11	3386-33-2	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:21	83-32-9	1e
Acenaphthylene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:21	208-96-8	1e
Anthracene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:21	120-12-7	1e
Benzo(a)anthracene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:21	56-55-3	1e
Benzo(a)pyrene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:21	50-32-8	1e
Benzo(b)fluoranthene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:21	205-99-2	1e
Benzo(g,h,i)perylene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:21	191-24-2	1e
Benzo(k)fluoranthene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:21	207-08-9	1e
Chrysene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:21	218-01-9	1e
Dibenz(a,h)anthracene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:21	53-70-3	1e
Fluoranthene	ND	ug/L	0.45	1	11/02/16 00:00	11/02/16 17:21	206-44-0	1e
Fluorene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:21	86-73-7	1e
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:21	193-39-5	1e
Naphthalene	ND	ug/L	0.45	1	11/02/16 00:00	11/02/16 17:21	91-20-3	1e
Phenanthrene	ND	ug/L	0.45	1	11/02/16 00:00	11/02/16 17:21	85-01-8	1e
Pyrene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:21	129-00-0	1e
Surrogates								
2-Fluorobiphenyl (S)	90	%	39-85	1	11/02/16 00:00	11/02/16 17:21	321-60-8	S3
Terphenyl-d14 (S)	107	%	48-95	1	11/02/16 00:00	11/02/16 17:21	1718-51-0	S3
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/02/16 18:27	67-64-1	
Benzene	ND	ug/L	1.0	1		11/02/16 18:27	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/02/16 18:27	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/02/16 18:27	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/02/16 18:27	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/02/16 18:27	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/02/16 18:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/02/16 18:27	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		11/02/16 18:27	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/02/16 18:27	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		11/02/16 18:27	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		11/02/16 18:27	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/02/16 18:27	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/02/16 18:27	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/02/16 18:27	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/02/16 18:27	67-66-3	

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ANALYTICAL RESULTS

Project: Coastal Mart
Pace Project No.: 60231211

Sample: MW-12D **Lab ID: 60231211006** Collected: 10/28/16 15:15 Received: 10/31/16 21:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Chloromethane	ND	ug/L	1.0	1		11/02/16 18:27	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/02/16 18:27	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/02/16 18:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		11/02/16 18:27	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/02/16 18:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/02/16 18:27	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/02/16 18:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/02/16 18:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/02/16 18:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/02/16 18:27	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/02/16 18:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/02/16 18:27	75-34-3	L2
1,2-Dichloroethane	ND	ug/L	1.0	1		11/02/16 18:27	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/02/16 18:27	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/02/16 18:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/02/16 18:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/02/16 18:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/02/16 18:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/02/16 18:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/02/16 18:27	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/02/16 18:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/02/16 18:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/02/16 18:27	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		11/02/16 18:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/02/16 18:27	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		11/02/16 18:27	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/02/16 18:27	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/02/16 18:27	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/02/16 18:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/02/16 18:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/02/16 18:27	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		11/02/16 18:27	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		11/02/16 18:27	103-65-1	
Styrene	ND	ug/L	1.0	1		11/02/16 18:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/02/16 18:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/02/16 18:27	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/02/16 18:27	127-18-4	
Toluene	ND	ug/L	1.0	1		11/02/16 18:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/02/16 18:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/02/16 18:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/02/16 18:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/02/16 18:27	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/02/16 18:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/02/16 18:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		11/02/16 18:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/02/16 18:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/02/16 18:27	108-67-8	

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ANALYTICAL RESULTS

Project: Coastal Mart
Pace Project No.: 60231211

Sample: MW-12D **Lab ID: 60231211006** Collected: 10/28/16 15:15 Received: 10/31/16 21:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Vinyl chloride	ND	ug/L	1.0	1		11/02/16 18:27	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/02/16 18:27	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	88	%	77-130	1		11/02/16 18:27	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	81-127	1		11/02/16 18:27	17060-07-0	
Toluene-d8 (S)	99	%	80-120	1		11/02/16 18:27	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/02/16 18:27		
8260/KS TPH Water	Analytical Method: EPA 8260							
LRH (C5-C8)	ND	mg/L	0.050	1		11/03/16 05:59		
Surrogates								
Toluene-d8 (S)	102	%	80-120	1		11/03/16 05:59	2037-26-5	
4-Bromofluorobenzene (S)	101	%	80-120	1		11/03/16 05:59	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	80-120	1		11/03/16 05:59	17060-07-0	
Preservation pH	**1.0**		0.10	1		11/03/16 05:59		

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ANALYTICAL RESULTS

Project: Coastal Mart
Pace Project No.: 60231211

Sample: MW-13S **Lab ID: 60231211007** Collected: 10/28/16 09:55 Received: 10/31/16 21:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.030	1	11/02/16 10:51	11/02/16 22:10	106-93-4	
8015 MOD KS TPH	Analytical Method: EPA 8015C Preparation Method: EPA 3511							
HRH (C19-C35)	**0.20**	mg/L	0.079	1	11/03/16 00:00	11/04/16 15:34		
MRH (C9-C18)	**0.073**	mg/L	0.060	1	11/03/16 00:00	11/04/16 15:34		
Surrogates								
1-Chloro-octadecane (S)	38	%	40-140	1	11/03/16 00:00	11/04/16 15:34	3386-33-2	2e
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:40	83-32-9	1e
Acenaphthylene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:40	208-96-8	1e
Anthracene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:40	120-12-7	1e
Benzo(a)anthracene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:40	56-55-3	1e
Benzo(a)pyrene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:40	50-32-8	1e
Benzo(b)fluoranthene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:40	205-99-2	1e
Benzo(g,h,i)perylene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:40	191-24-2	1e
Benzo(k)fluoranthene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:40	207-08-9	1e
Chrysene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:40	218-01-9	1e
Dibenz(a,h)anthracene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:40	53-70-3	1e
Fluoranthene	ND	ug/L	0.45	1	11/02/16 00:00	11/02/16 17:40	206-44-0	1e
Fluorene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:40	86-73-7	1e
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:40	193-39-5	1e
Naphthalene	ND	ug/L	0.45	1	11/02/16 00:00	11/02/16 17:40	91-20-3	1e
Phenanthrene	ND	ug/L	0.45	1	11/02/16 00:00	11/02/16 17:40	85-01-8	1e
Pyrene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:40	129-00-0	1e
Surrogates								
2-Fluorobiphenyl (S)	90	%	39-85	1	11/02/16 00:00	11/02/16 17:40	321-60-8	S3
Terphenyl-d14 (S)	93	%	48-95	1	11/02/16 00:00	11/02/16 17:40	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/02/16 18:41	67-64-1	
Benzene	ND	ug/L	1.0	1		11/02/16 18:41	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/02/16 18:41	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/02/16 18:41	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/02/16 18:41	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/02/16 18:41	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/02/16 18:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/02/16 18:41	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		11/02/16 18:41	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/02/16 18:41	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		11/02/16 18:41	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		11/02/16 18:41	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/02/16 18:41	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/02/16 18:41	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/02/16 18:41	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/02/16 18:41	67-66-3	

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ANALYTICAL RESULTS

Project: Coastal Mart
Pace Project No.: 60231211

Sample: MW-13S **Lab ID: 60231211007** Collected: 10/28/16 09:55 Received: 10/31/16 21:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Chloromethane	ND	ug/L	1.0	1		11/02/16 18:41	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/02/16 18:41	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/02/16 18:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		11/02/16 18:41	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/02/16 18:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/02/16 18:41	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/02/16 18:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/02/16 18:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/02/16 18:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/02/16 18:41	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/02/16 18:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/02/16 18:41	75-34-3	L2
1,2-Dichloroethane	ND	ug/L	1.0	1		11/02/16 18:41	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/02/16 18:41	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/02/16 18:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/02/16 18:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/02/16 18:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/02/16 18:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/02/16 18:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/02/16 18:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/02/16 18:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/02/16 18:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/02/16 18:41	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		11/02/16 18:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/02/16 18:41	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		11/02/16 18:41	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/02/16 18:41	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/02/16 18:41	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/02/16 18:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/02/16 18:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/02/16 18:41	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		11/02/16 18:41	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		11/02/16 18:41	103-65-1	
Styrene	ND	ug/L	1.0	1		11/02/16 18:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/02/16 18:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/02/16 18:41	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		11/02/16 18:41	127-18-4	
Toluene	ND	ug/L	1.0	1		11/02/16 18:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/02/16 18:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/02/16 18:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/02/16 18:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/02/16 18:41	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/02/16 18:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/02/16 18:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		11/02/16 18:41	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/02/16 18:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/02/16 18:41	108-67-8	

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ANALYTICAL RESULTS

Project: Coastal Mart
Pace Project No.: 60231211

Sample: MW-13S **Lab ID: 60231211007** Collected: 10/28/16 09:55 Received: 10/31/16 21:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Vinyl chloride	ND	ug/L	1.0	1		11/02/16 18:41	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/02/16 18:41	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	88	%	77-130	1		11/02/16 18:41	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	81-127	1		11/02/16 18:41	17060-07-0	
Toluene-d8 (S)	100	%	80-120	1		11/02/16 18:41	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/02/16 18:41		
8260/KS TPH Water	Analytical Method: EPA 8260							
LRH (C5-C8)	ND	mg/L	0.050	1		11/03/16 06:14		
Surrogates								
Toluene-d8 (S)	101	%	80-120	1		11/03/16 06:14	2037-26-5	
4-Bromofluorobenzene (S)	101	%	80-120	1		11/03/16 06:14	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	80-120	1		11/03/16 06:14	17060-07-0	
Preservation pH	**1.0**		0.10	1		11/03/16 06:14		

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ANALYTICAL RESULTS

Project: Coastal Mart
Pace Project No.: 60231211

Sample: MW-13D **Lab ID: 60231211008** Collected: 10/28/16 10:25 Received: 10/31/16 21:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.030	1	11/02/16 10:51	11/02/16 22:21	106-93-4	
8015 MOD KS TPH	Analytical Method: EPA 8015C Preparation Method: EPA 3511							
HRH (C19-C35)	**0.13**	mg/L	0.080	1	11/03/16 00:00	11/04/16 15:42		
MRH (C9-C18)	ND	mg/L	0.060	1	11/03/16 00:00	11/04/16 15:42		
Surrogates								
1-Chloro-octadecane (S)	81	%	40-140	1	11/03/16 00:00	11/04/16 15:42	3386-33-2	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270C by SIM Preparation Method: EPA 3510C							
Acenaphthene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:59	83-32-9	1e
Acenaphthylene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:59	208-96-8	1e
Anthracene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:59	120-12-7	1e
Benzo(a)anthracene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:59	56-55-3	1e
Benzo(a)pyrene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:59	50-32-8	1e
Benzo(b)fluoranthene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:59	205-99-2	1e
Benzo(g,h,i)perylene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:59	191-24-2	1e
Benzo(k)fluoranthene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:59	207-08-9	1e
Chrysene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:59	218-01-9	1e
Dibenz(a,h)anthracene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:59	53-70-3	1e
Fluoranthene	ND	ug/L	0.45	1	11/02/16 00:00	11/02/16 17:59	206-44-0	1e
Fluorene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:59	86-73-7	1e
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:59	193-39-5	1e
Naphthalene	ND	ug/L	0.45	1	11/02/16 00:00	11/02/16 17:59	91-20-3	1e
Phenanthrene	ND	ug/L	0.45	1	11/02/16 00:00	11/02/16 17:59	85-01-8	1e
Pyrene	ND	ug/L	0.091	1	11/02/16 00:00	11/02/16 17:59	129-00-0	1e
Surrogates								
2-Fluorobiphenyl (S)	86	%	39-85	1	11/02/16 00:00	11/02/16 17:59	321-60-8	S3
Terphenyl-d14 (S)	91	%	48-95	1	11/02/16 00:00	11/02/16 17:59	1718-51-0	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		11/02/16 18:56	67-64-1	
Benzene	ND	ug/L	1.0	1		11/02/16 18:56	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		11/02/16 18:56	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		11/02/16 18:56	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		11/02/16 18:56	75-27-4	
Bromoform	ND	ug/L	1.0	1		11/02/16 18:56	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/02/16 18:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		11/02/16 18:56	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		11/02/16 18:56	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		11/02/16 18:56	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		11/02/16 18:56	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		11/02/16 18:56	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		11/02/16 18:56	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		11/02/16 18:56	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/02/16 18:56	75-00-3	
Chloroform	ND	ug/L	1.0	1		11/02/16 18:56	67-66-3	

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ANALYTICAL RESULTS

Project: Coastal Mart
Pace Project No.: 60231211

Sample: MW-13D **Lab ID: 60231211008** Collected: 10/28/16 10:25 Received: 10/31/16 21:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Chloromethane	ND	ug/L	1.0	1		11/02/16 18:56	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		11/02/16 18:56	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		11/02/16 18:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		11/02/16 18:56	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		11/02/16 18:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		11/02/16 18:56	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		11/02/16 18:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		11/02/16 18:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		11/02/16 18:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		11/02/16 18:56	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		11/02/16 18:56	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		11/02/16 18:56	75-34-3	L2
1,2-Dichloroethane	ND	ug/L	1.0	1		11/02/16 18:56	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		11/02/16 18:56	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		11/02/16 18:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		11/02/16 18:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		11/02/16 18:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		11/02/16 18:56	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		11/02/16 18:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		11/02/16 18:56	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		11/02/16 18:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		11/02/16 18:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		11/02/16 18:56	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		11/02/16 18:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		11/02/16 18:56	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		11/02/16 18:56	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		11/02/16 18:56	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		11/02/16 18:56	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		11/02/16 18:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		11/02/16 18:56	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/02/16 18:56	1634-04-4	
Naphthalene	ND	ug/L	10.0	1		11/02/16 18:56	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		11/02/16 18:56	103-65-1	
Styrene	ND	ug/L	1.0	1		11/02/16 18:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		11/02/16 18:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		11/02/16 18:56	79-34-5	
Tetrachloroethene	**2.7**	ug/L	1.0	1		11/02/16 18:56	127-18-4	
Toluene	ND	ug/L	1.0	1		11/02/16 18:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		11/02/16 18:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		11/02/16 18:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		11/02/16 18:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		11/02/16 18:56	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		11/02/16 18:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/02/16 18:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		11/02/16 18:56	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		11/02/16 18:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		11/02/16 18:56	108-67-8	

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ANALYTICAL RESULTS

Project: Coastal Mart
Pace Project No.: 60231211

Sample: MW-13D **Lab ID: 60231211008** Collected: 10/28/16 10:25 Received: 10/31/16 21:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Vinyl chloride	ND	ug/L	1.0	1		11/02/16 18:56	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		11/02/16 18:56	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	95	%	77-130	1		11/02/16 18:56	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	81-127	1		11/02/16 18:56	17060-07-0	
Toluene-d8 (S)	100	%	80-120	1		11/02/16 18:56	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/02/16 18:56		
8260/KS TPH Water	Analytical Method: EPA 8260							
LRH (C5-C8)	ND	mg/L	0.050	1		11/03/16 06:29		
Surrogates								
Toluene-d8 (S)	101	%	80-120	1		11/03/16 06:29	2037-26-5	
4-Bromofluorobenzene (S)	102	%	80-120	1		11/03/16 06:29	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	80-120	1		11/03/16 06:29	17060-07-0	
Preservation pH	**1.0**		0.10	1		11/03/16 06:29		

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ANALYTICAL RESULTS

Project: Coastal Mart
Pace Project No.: 60231211

Sample: TRIP BLANKS **Lab ID: 60231211009** Collected: 10/28/16 09:55 Received: 10/31/16 21:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Benzene	ND	ug/L	1.0	1		11/02/16 15:04	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		11/02/16 15:04	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		11/02/16 15:04	1634-04-4	
Toluene	ND	ug/L	1.0	1		11/02/16 15:04	108-88-3	
Xylene (Total)	ND	ug/L	3.0	1		11/02/16 15:04	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	93	%	77-130	1		11/02/16 15:04	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	81-127	1		11/02/16 15:04	17060-07-0	
Toluene-d8 (S)	104	%	80-120	1		11/02/16 15:04	2037-26-5	
Preservation pH	**1.0**		0.10	1		11/02/16 15:04		

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QUALITY CONTROL DATA

Project: Coastal Mart
Pace Project No.: 60231211

QC Batch: 453079 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60231211001, 60231211002, 60231211003, 60231211004, 60231211005, 60231211006, 60231211007, 60231211008, 60231211009

METHOD BLANK: 1854696 Matrix: Water
Associated Lab Samples: 60231211001, 60231211002, 60231211003, 60231211004, 60231211005, 60231211006, 60231211007, 60231211008, 60231211009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	11/02/16 14:35	
1,1,1-Trichloroethane	ug/L	ND	1.0	11/02/16 14:35	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	11/02/16 14:35	
1,1,2-Trichloroethane	ug/L	ND	1.0	11/02/16 14:35	
1,1-Dichloroethane	ug/L	ND	1.0	11/02/16 14:35	
1,1-Dichloroethene	ug/L	ND	1.0	11/02/16 14:35	
1,1-Dichloropropene	ug/L	ND	1.0	11/02/16 14:35	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	11/02/16 14:35	
1,2,3-Trichloropropane	ug/L	ND	2.5	11/02/16 14:35	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	11/02/16 14:35	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	11/02/16 14:35	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	11/02/16 14:35	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	11/02/16 14:35	
1,2-Dichlorobenzene	ug/L	ND	1.0	11/02/16 14:35	
1,2-Dichloroethane	ug/L	ND	1.0	11/02/16 14:35	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	11/02/16 14:35	
1,2-Dichloropropane	ug/L	ND	1.0	11/02/16 14:35	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	11/02/16 14:35	
1,3-Dichlorobenzene	ug/L	ND	1.0	11/02/16 14:35	
1,3-Dichloropropane	ug/L	ND	1.0	11/02/16 14:35	
1,4-Dichlorobenzene	ug/L	ND	1.0	11/02/16 14:35	
2,2-Dichloropropane	ug/L	ND	1.0	11/02/16 14:35	
2-Butanone (MEK)	ug/L	ND	10.0	11/02/16 14:35	
2-Chlorotoluene	ug/L	ND	1.0	11/02/16 14:35	
2-Hexanone	ug/L	ND	10.0	11/02/16 14:35	
4-Chlorotoluene	ug/L	ND	1.0	11/02/16 14:35	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	11/02/16 14:35	
Acetone	ug/L	ND	10.0	11/02/16 14:35	
Benzene	ug/L	ND	1.0	11/02/16 14:35	
Bromobenzene	ug/L	ND	1.0	11/02/16 14:35	
Bromochloromethane	ug/L	ND	1.0	11/02/16 14:35	
Bromodichloromethane	ug/L	ND	1.0	11/02/16 14:35	
Bromoform	ug/L	ND	1.0	11/02/16 14:35	
Bromomethane	ug/L	ND	5.0	11/02/16 14:35	
Carbon disulfide	ug/L	ND	5.0	11/02/16 14:35	
Carbon tetrachloride	ug/L	ND	1.0	11/02/16 14:35	
Chlorobenzene	ug/L	ND	1.0	11/02/16 14:35	
Chloroethane	ug/L	ND	1.0	11/02/16 14:35	
Chloroform	ug/L	ND	1.0	11/02/16 14:35	
Chloromethane	ug/L	ND	1.0	11/02/16 14:35	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: Coastal Mart
Pace Project No.: 60231211

METHOD BLANK: 1854696 Matrix: Water

Associated Lab Samples: 60231211001, 60231211002, 60231211003, 60231211004, 60231211005, 60231211006, 60231211007, 60231211008, 60231211009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,2-Dichloroethene	ug/L	ND	1.0	11/02/16 14:35	
cis-1,3-Dichloropropene	ug/L	ND	1.0	11/02/16 14:35	
Dibromochloromethane	ug/L	ND	1.0	11/02/16 14:35	
Dibromomethane	ug/L	ND	1.0	11/02/16 14:35	
Dichlorodifluoromethane	ug/L	ND	1.0	11/02/16 14:35	
Ethylbenzene	ug/L	ND	1.0	11/02/16 14:35	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	11/02/16 14:35	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	11/02/16 14:35	
Methyl-tert-butyl ether	ug/L	ND	1.0	11/02/16 14:35	
Methylene chloride	ug/L	ND	1.0	11/02/16 14:35	
n-Butylbenzene	ug/L	ND	1.0	11/02/16 14:35	
n-Propylbenzene	ug/L	ND	1.0	11/02/16 14:35	
Naphthalene	ug/L	ND	10.0	11/02/16 14:35	
p-Isopropyltoluene	ug/L	ND	1.0	11/02/16 14:35	
sec-Butylbenzene	ug/L	ND	1.0	11/02/16 14:35	
Styrene	ug/L	ND	1.0	11/02/16 14:35	
tert-Butylbenzene	ug/L	ND	1.0	11/02/16 14:35	
Tetrachloroethene	ug/L	ND	1.0	11/02/16 14:35	
Toluene	ug/L	ND	1.0	11/02/16 14:35	
trans-1,2-Dichloroethene	ug/L	ND	1.0	11/02/16 14:35	
trans-1,3-Dichloropropene	ug/L	ND	1.0	11/02/16 14:35	
Trichloroethene	ug/L	ND	1.0	11/02/16 14:35	
Trichlorofluoromethane	ug/L	ND	1.0	11/02/16 14:35	
Vinyl chloride	ug/L	ND	1.0	11/02/16 14:35	
Xylene (Total)	ug/L	ND	3.0	11/02/16 14:35	
1,2-Dichloroethane-d4 (S)	%	92	81-127	11/02/16 14:35	
4-Bromofluorobenzene (S)	%	93	77-130	11/02/16 14:35	
Toluene-d8 (S)	%	100	80-120	11/02/16 14:35	

LABORATORY CONTROL SAMPLE: 1854697

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.4	97	80-112	
1,1,1-Trichloroethane	ug/L	20	19.0	95	81-116	
1,1,2,2-Tetrachloroethane	ug/L	20	17.7	89	72-117	
1,1,2-Trichloroethane	ug/L	20	18.0	90	79-108	
1,1-Dichloroethane	ug/L	20	16.2	81	83-117	L0
1,1-Dichloroethene	ug/L	20	16.8	84	74-114	
1,1-Dichloropropene	ug/L	20	18.9	95	80-120	
1,2,3-Trichlorobenzene	ug/L	20	18.4	92	74-124	
1,2,3-Trichloropropane	ug/L	20	16.0	80	74-120	
1,2,4-Trichlorobenzene	ug/L	20	18.6	93	78-120	
1,2,4-Trimethylbenzene	ug/L	20	19.1	95	82-114	

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QUALITY CONTROL DATA

Project: Coastal Mart
Pace Project No.: 60231211

LABORATORY CONTROL SAMPLE: 1854697

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	20	17.5	87	73-124	
1,2-Dibromoethane (EDB)	ug/L	20	20.2	101	81-120	
1,2-Dichlorobenzene	ug/L	20	19.3	96	84-117	
1,2-Dichloroethane	ug/L	20	18.6	93	72-116	
1,2-Dichloroethene (Total)	ug/L	40	34.8	87	80-120	
1,2-Dichloropropane	ug/L	20	18.2	91	80-120	
1,3,5-Trimethylbenzene	ug/L	20	18.4	92	80-120	
1,3-Dichlorobenzene	ug/L	20	19.3	96	80-120	
1,3-Dichloropropane	ug/L	20	19.9	100	80-120	
1,4-Dichlorobenzene	ug/L	20	18.8	94	80-120	
2,2-Dichloropropane	ug/L	20	16.6	83	58-132	
2-Butanone (MEK)	ug/L	100	75.9	76	67-129	
2-Chlorotoluene	ug/L	20	17.9	90	80-120	
2-Hexanone	ug/L	100	84.5	85	70-128	
4-Chlorotoluene	ug/L	20	19.0	95	80-120	
4-Methyl-2-pentanone (MIBK)	ug/L	100	86.0	86	80-120	
Acetone	ug/L	100	71.3	71	56-142	
Benzene	ug/L	20	19.0	95	79-116	
Bromobenzene	ug/L	20	18.9	94	80-120	
Bromochloromethane	ug/L	20	21.7	108	76-124	
Bromodichloromethane	ug/L	20	19.5	98	80-120	
Bromoform	ug/L	20	20.4	102	73-114	
Bromomethane	ug/L	20	22.3	111	49-153	
Carbon disulfide	ug/L	20	16.8	84	82-121	
Carbon tetrachloride	ug/L	20	18.5	93	80-116	
Chlorobenzene	ug/L	20	20.7	104	80-120	
Chloroethane	ug/L	20	23.1	115	67-124	
Chloroform	ug/L	20	19.4	97	79-120	
Chloromethane	ug/L	20	29.8	149	10-192	
cis-1,2-Dichloroethene	ug/L	20	17.7	88	80-120	
cis-1,3-Dichloropropene	ug/L	20	18.7	93	80-120	
Dibromochloromethane	ug/L	20	19.1	96	80-120	
Dibromomethane	ug/L	20	20.9	105	84-117	
Dichlorodifluoromethane	ug/L	20	22.9	114	22-167	
Ethylbenzene	ug/L	20	20.3	102	80-120	
Hexachloro-1,3-butadiene	ug/L	20	18.8	94	75-122	
Isopropylbenzene (Cumene)	ug/L	20	20.9	104	80-120	
Methyl-tert-butyl ether	ug/L	20	16.1	81	79-117	
Methylene chloride	ug/L	20	17.3	87	80-120	
n-Butylbenzene	ug/L	20	18.2	91	80-120	
n-Propylbenzene	ug/L	20	18.7	93	80-120	
Naphthalene	ug/L	20	18.1	90	74-125	
p-Isopropyltoluene	ug/L	20	18.5	92	80-120	
sec-Butylbenzene	ug/L	20	17.9	89	80-120	
Styrene	ug/L	20	20.9	104	80-120	
tert-Butylbenzene	ug/L	20	18.5	93	85-116	
Tetrachloroethene	ug/L	20	20.5	102	80-120	

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QUALITY CONTROL DATA

Project: Coastal Mart
Pace Project No.: 60231211

LABORATORY CONTROL SAMPLE: 1854697

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	20	18.8	94	80-120	
trans-1,2-Dichloroethene	ug/L	20	17.1	85	78-108	
trans-1,3-Dichloropropene.	ug/L	20	18.6	93	85-120	
Trichloroethene	ug/L	20	18.8	94	76-114	
Trichlorofluoromethane	ug/L	20	21.3	107	78-132	
Vinyl chloride	ug/L	20	21.3	107	69-129	
Xylene (Total)	ug/L	60	61.6	103	80-120	
1,2-Dichloroethane-d4 (S)	%			94	81-127	
4-Bromofluorobenzene (S)	%			91	77-130	
Toluene-d8 (S)	%			100	80-120	

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QUALITY CONTROL DATA

Project: Coastal Mart
Pace Project No.: 60231211

QC Batch: 452950 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260/KS TPH-WATER
Associated Lab Samples: 60231211001, 60231211002, 60231211003, 60231211004, 60231211005, 60231211006, 60231211007, 60231211008

METHOD BLANK: 1854177 Matrix: Water
Associated Lab Samples: 60231211001, 60231211002, 60231211003, 60231211004, 60231211005, 60231211006, 60231211007, 60231211008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
LRH (C5-C8)	mg/L	ND	0.050	11/03/16 04:14	
1,2-Dichloroethane-d4 (S)	%	99	80-120	11/03/16 04:14	
4-Bromofluorobenzene (S)	%	102	80-120	11/03/16 04:14	
Toluene-d8 (S)	%	101	80-120	11/03/16 04:14	

LABORATORY CONTROL SAMPLE & LCSD: 1854178 1854179

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
LRH (C5-C8)	mg/L	.4	0.43	0.44	108	111	70-130	2	25	
1,2-Dichloroethane-d4 (S)	%				99	101	80-120			
4-Bromofluorobenzene (S)	%				100	101	80-120			
Toluene-d8 (S)	%				100	101	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1854180 1854181

Parameter	Units	60230876005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
LRH (C5-C8)	mg/L	ND	.4	.4	0.43	0.45	107	111	70-130	4	50	
1,2-Dichloroethane-d4 (S)	%						100	99	80-120			
4-Bromofluorobenzene (S)	%						102	103	80-120			
Toluene-d8 (S)	%						101	102	80-120			
Preservation pH		1.0			1.0	1.0				0		

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QUALITY CONTROL DATA

Project: Coastal Mart
Pace Project No.: 60231211

QC Batch: 453051 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 60231211001, 60231211002, 60231211003, 60231211004, 60231211005, 60231211006, 60231211007, 60231211008

METHOD BLANK: 1854634 Matrix: Water
Associated Lab Samples: 60231211001, 60231211002, 60231211003, 60231211004, 60231211005, 60231211006, 60231211007, 60231211008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.030	11/02/16 19:29	

LABORATORY CONTROL SAMPLE & LCSD: 1854635 1854636

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.25	0.25	0.23	98	94	84-137	5	16	

MATRIX SPIKE SAMPLE: 1854637

Parameter	Units	60231211001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	.25	0.23	89	46-155	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Coastal Mart
Pace Project No.: 60231211

QC Batch: 453401 Analysis Method: EPA 8015C
QC Batch Method: EPA 3511 Analysis Description: EPA 8015C
Associated Lab Samples: 60231211001, 60231211002, 60231211003, 60231211004, 60231211005, 60231211006, 60231211007, 60231211008

METHOD BLANK: 1855971 Matrix: Water
Associated Lab Samples: 60231211001, 60231211002, 60231211003, 60231211004, 60231211005, 60231211006, 60231211007, 60231211008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
HRH (C19-C35)	mg/L	ND	0.078	11/04/16 14:06	
MRH (C9-C18)	mg/L	ND	0.059	11/04/16 14:06	
1-Chloro-octadecane (S)	%	87	40-140	11/04/16 14:06	

LABORATORY CONTROL SAMPLE & LCSD: 1855972 1855973

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
HRH (C19-C35)	mg/L	.22	0.25	0.30	112	130	40-140	18	25	
MRH (C9-C18)	mg/L	.16	0.15	0.17	91	100	40-140	12	25	
1-Chloro-octadecane (S)	%				71	85	40-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1855974 1855975

Parameter	Units	60231211006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
HRH (C19-C35)	mg/L	ND	.23	.23	0.28	0.26	102	93	40-140	6	50	
MRH (C9-C18)	mg/L	ND	.17	.17	0.20	0.18	101	88	40-140	11	50	
1-Chloro-octadecane (S)	%						101	91	40-140			

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QUALITY CONTROL DATA

Project: Coastal Mart
Pace Project No.: 60231211

QC Batch: 453020 Analysis Method: EPA 8270C by SIM
QC Batch Method: EPA 3510C Analysis Description: 8270 Water PAH by SIM MSSV
Associated Lab Samples: 60231211001, 60231211002, 60231211003, 60231211004, 60231211005, 60231211006, 60231211007, 60231211008

METHOD BLANK: 1854491 Matrix: Water
Associated Lab Samples: 60231211001, 60231211002, 60231211003, 60231211004, 60231211005, 60231211006, 60231211007, 60231211008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	0.10	11/02/16 15:04	
Acenaphthylene	ug/L	ND	0.10	11/02/16 15:04	
Anthracene	ug/L	ND	0.10	11/02/16 15:04	
Benzo(a)anthracene	ug/L	ND	0.10	11/02/16 15:04	
Benzo(a)pyrene	ug/L	ND	0.10	11/02/16 15:04	
Benzo(b)fluoranthene	ug/L	ND	0.10	11/02/16 15:04	
Benzo(g,h,i)perylene	ug/L	ND	0.10	11/02/16 15:04	
Benzo(k)fluoranthene	ug/L	ND	0.10	11/02/16 15:04	
Chrysene	ug/L	ND	0.10	11/02/16 15:04	
Dibenz(a,h)anthracene	ug/L	ND	0.10	11/02/16 15:04	
Fluoranthene	ug/L	ND	0.50	11/02/16 15:04	
Fluorene	ug/L	ND	0.10	11/02/16 15:04	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	11/02/16 15:04	
Naphthalene	ug/L	ND	0.50	11/02/16 15:04	
Phenanthrene	ug/L	ND	0.50	11/02/16 15:04	
Pyrene	ug/L	ND	0.10	11/02/16 15:04	
2-Fluorobiphenyl (S)	%	86	39-85	11/02/16 15:04	S3
Terphenyl-d14 (S)	%	112	48-95	11/02/16 15:04	S3

LABORATORY CONTROL SAMPLE: 1854492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	10	7.7	77	44-106	
Acenaphthylene	ug/L	10	7.8	78	45-111	
Anthracene	ug/L	10	8.5	85	49-111	
Benzo(a)anthracene	ug/L	10	9.3	93	53-120	
Benzo(a)pyrene	ug/L	10	10.4	104	51-115	
Benzo(b)fluoranthene	ug/L	10	10.5	105	44-126	
Benzo(g,h,i)perylene	ug/L	10	9.4	94	39-122	
Benzo(k)fluoranthene	ug/L	10	9.6	96	48-115	
Chrysene	ug/L	10	9.2	92	42-98	
Dibenz(a,h)anthracene	ug/L	10	9.5	95	30-127	
Fluoranthene	ug/L	10	10.6	106	57-121	
Fluorene	ug/L	10	8.0	80	47-110	
Indeno(1,2,3-cd)pyrene	ug/L	10	9.4	94	35-126	
Naphthalene	ug/L	10	7.7	77	40-106	
Phenanthrene	ug/L	10	8.1	81	45-107	
Pyrene	ug/L	10	8.8	88	42-117	

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QUALITY CONTROL DATA

Project: Coastal Mart
Pace Project No.: 60231211

LABORATORY CONTROL SAMPLE: 1854492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Fluorobiphenyl (S)	%			72	39-85	
Terphenyl-d14 (S)	%			79	48-95	

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QUALIFIERS

Project: Coastal Mart
Pace Project No.: 60231211

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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LABORATORIES

PASI-K Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: 453020

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 453079

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1e	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
2e	Surrogate recovery outside laboratory control limits. Verified by re-extraction and re-analysis.
3e	The methods baseline separation for isomers pairs in the Initial Calibration or Continuing Calibration Verification (CCV) was less than the expected 50% valley to baseline. No further action was taken for this method variation. The two compounds are still being reported as individual isomers and not a combined total, since there is separation between the two isomers.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
S0	Surrogate recovery outside laboratory control limits.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Coastal Mart
Pace Project No.: 60231211

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60231211001	**MW-9S**	EPA 8011	453051	EPA 8011	453121
60231211002	**MW-9D**	EPA 8011	453051	EPA 8011	453121
60231211003	**MW-10S**	EPA 8011	453051	EPA 8011	453121
60231211004	**MW-10D**	EPA 8011	453051	EPA 8011	453121
60231211005	**MW-12S**	EPA 8011	453051	EPA 8011	453121
60231211006	**MW-12D**	EPA 8011	453051	EPA 8011	453121
60231211007	**MW-13S**	EPA 8011	453051	EPA 8011	453121
60231211008	**MW-13D**	EPA 8011	453051	EPA 8011	453121
60231211001	**MW-9S**	EPA 3511	453401	EPA 8015C	453526
60231211002	**MW-9D**	EPA 3511	453401	EPA 8015C	453526
60231211003	**MW-10S**	EPA 3511	453401	EPA 8015C	453526
60231211004	**MW-10D**	EPA 3511	453401	EPA 8015C	453526
60231211005	**MW-12S**	EPA 3511	453401	EPA 8015C	453526
60231211006	**MW-12D**	EPA 3511	453401	EPA 8015C	453526
60231211007	**MW-13S**	EPA 3511	453401	EPA 8015C	453526
60231211008	**MW-13D**	EPA 3511	453401	EPA 8015C	453526
60231211001	**MW-9S**	EPA 3510C	453020	EPA 8270C by SIM	453180
60231211002	**MW-9D**	EPA 3510C	453020	EPA 8270C by SIM	453180
60231211003	**MW-10S**	EPA 3510C	453020	EPA 8270C by SIM	453180
60231211004	**MW-10D**	EPA 3510C	453020	EPA 8270C by SIM	453180
60231211005	**MW-12S**	EPA 3510C	453020	EPA 8270C by SIM	453180
60231211006	**MW-12D**	EPA 3510C	453020	EPA 8270C by SIM	453180
60231211007	**MW-13S**	EPA 3510C	453020	EPA 8270C by SIM	453180
60231211008	**MW-13D**	EPA 3510C	453020	EPA 8270C by SIM	453180
60231211001	**MW-9S**	EPA 5030B/8260	453079		
60231211002	**MW-9D**	EPA 5030B/8260	453079		
60231211003	**MW-10S**	EPA 5030B/8260	453079		
60231211004	**MW-10D**	EPA 5030B/8260	453079		
60231211005	**MW-12S**	EPA 5030B/8260	453079		
60231211006	**MW-12D**	EPA 5030B/8260	453079		
60231211007	**MW-13S**	EPA 5030B/8260	453079		
60231211008	**MW-13D**	EPA 5030B/8260	453079		
60231211009	**TRIP BLANKS**	EPA 5030B/8260	453079		
60231211001	**MW-9S**	EPA 8260	452950		
60231211002	**MW-9D**	EPA 8260	452950		
60231211003	**MW-10S**	EPA 8260	452950		
60231211004	**MW-10D**	EPA 8260	452950		
60231211005	**MW-12S**	EPA 8260	452950		
60231211006	**MW-12D**	EPA 8260	452950		
60231211007	**MW-13S**	EPA 8260	452950		
60231211008	**MW-13D**	EPA 8260	452950		

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Pace Analytical
www.pacelabs.com

Sample Condition Upon Receipt

WO#: 60231211

60231211

Client Name: GSI

Courier: FedEx ☐ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECL ☑ Pace ☐ Xroads ☐ Client ☐ Other ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Other ☐

Thermometer Used: CF +0.7 T-266 / CF -0.5 T-239 **Type of Ice:** Wet Blue None

Cooler Temperature (°C): **As-read** 1.4 2.4 **Corr. Factor** CF +0.7 CF -0.5 **Corrected** 2.1 3.1

Temperature should be above freezing to 6°C 0.3 0.8 1.0 1.5

Date and initials of person examining contents: AM 11/1/16

Chain of Custody present:	☑Yes ☐No ☐N/A	
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	
Samples arrived within holding time:	☑Yes ☐No ☐N/A	
Short Hold Time analyses (<72hr):	☐Yes ☑No ☐N/A	
Rush Turn Around Time requested:	☑Yes ☐No ☐N/A	3 day
Sufficient volume:	☑Yes ☐No ☐N/A	
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	
Containers intact:	☑Yes ☐No ☐N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	☐Yes ☐No ☑N/A	
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	
Sample labels match COC: Date / time / ID / analyses	☑Yes ☐No ☐N/A	
Samples contain multiple phases? Matrix: WT	☐Yes ☑No ☐N/A	
Containers requiring pH preservation in compliance? (HNO_3, H_2SO_4, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO)	☐Yes ☐No ☑N/A	
Cyanide water sample checks: ☑N/A		
Lead acetate strip turns dark? (Record only)	☐Yes ☐No	
Potassium iodide test strip turns blue/purple? (Preserve)	☐Yes ☐No	
Trip Blank present:	☑Yes ☐No ☐N/A	2 trip blank sets arrived in one cooler w/
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	9S & 9D. will be considered one set
Samples from USDA Regulated Area: State:	☐Yes ☐No ☑N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	☐Yes ☐No ☑N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: Mike Balleau Date/Time: 11/1/16

Comments/ Resolution: Need PAH SIM + SVOCs or standard SVOC list? AMW 11/1/16

Project Manager Review: AMW Date: 11/1/16

PaceAnalytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed.

Page : 1 Of 1

Section A — Required Client Information:

Company: Geotechnical Services - Wichita
Address: 4503 E 47th St South
Wichita, KS 67210
Email: mballeau@gsinetwork.com
Phone: (316)554-0725 Fax:
Requested Due Date: 72 hours

Section B — Required Project Information:

Report To: Mike Balleau
Copy To:
Purchase Order #:
Project Name: Coastal Mart
Project #: 167408

Section C — Invoice Information:

Attention: Kathy Lewman
Company Name: GSI
Address: same
Pace Quote: Coastal Mart, via Amy
Pace Project Manager: heather.wilson@pacelabs.com,
Pace Profile #:

Regulatory Agency:
State / Location: KS

Requested Analysis Filtered (Y/N): Y/N

Preservatives: Unpreserved, H2SO4, HNO3, HCl, NaOH, Na2S2O3, Methanol, Other

Analyses Test: 8260 BTEX/MTBE; 8270 Full list plus PAHs; EDB 8011; KS TPH LRH; KS TPH MRH/HRH; 8260 VOCs Full List; 8015 Gasoline Range Organics; Trip BLANK

Residual Chlorine (Y/N): 6023212 11

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	8260 BTEX/MTBE	8270 Full list plus PAHs	EDB 8011	KS TPH LRH	KS TPH MRH/HRH	8260 VOCs Full List	8015 Gasoline Range Organics	Trip BLANK	Residual Chlorine (Y/N)		
1	MW-9S	WT		10/28	1735				16	2			12		2				X	X	X	X	X	10(DCAH) 2(DCAT) 2(62)			QC,MRH/HRH KS Mod 8015Extra for QC,Extra for QC	001
2	MW-9D	WT			1720														X	X	X	X	X				QC,MRH/HRH KS Mod 8015Extra for QC,Extra for QC	002
3	MW-10S	WT			1155														X	X	X	X	X				QC,MRH/HRH KS Mod 8015Extra for QC,Extra for QC	003
4	MW-10D	WT			1405														X	X	X	X	X				QC,MRH/HRH KS Mod 8015Extra for QC,Extra for QC	004
5	~~MW-11S~~ not sampled	WT			—														X	X	X	X	X				QC,MRH/HRH KS Mod 8015Extra for QC,Extra for QC	—
6	~~MW-11D~~ not sampled	WT			—														X	X	X	X	X				QC,MRH/HRH KS Mod 8015Extra for QC,Extra for QC	—
7	MW-12S	WT			1550														X	X	X	X	X				QC,MRH/HRH KS Mod 8015Extra for QC,Extra for QC	005
8	MW-12D	WT			1515														X	X	X	X	X				QC,MRH/HRH KS Mod 8015Extra for QC,Extra for QC	006
9	MW-13S	WT			0958														X	X	X	X	X				QC,MRH/HRH KS Mod 8015Extra for QC,Extra for QC	007
10	MW-13D	WT			1025														X	X	X	X	X				QC,MRH/HRH KS Mod 8015Extra for QC,Extra for QC	008
11	Trip Blanks								3				6					X	X						6(DCAH)			009
12																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	MBall GSI	10.31	1030	[signature]	10/31/16	2100

SAMPLE CONDITIONS			
TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
2.1	Y	Y	Y
3.1	Y	Y	Y
1.0	Y	Y	Y
1.5	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Michael Balleau

SIGNATURE of SAMPLER: [signature] DATE Signed: 10-31-16

Merestone Surveying

GSI Engineering
4503 E. 47th Street South
Wichita, KS 67210

November 10, 2016
Job # 16-11-257

SURVEYING OF MONITORING WELL LOCATIONS
FORMER COASTAL MART #7301
Central and Maize
WICHITA, SEDGWICK COUNTY, KANSAS

The above well locations are located in Sections 17, & 20 of T27S, R1W of the Sixth Principal Meridian, Sedgwick County, Kansas.

Horizontal Coordiantes are in Nad83 State Plane Kansas South Zone 1502. Coordinates are derived from the City of Wichita GPS Network.

Vertical Control: COW Brass Disk located on the traffic island at the NE corner of Central Ave & Maize Rd with an apparent NGVD29 Datum Elevation of 1333.39'....Utilizing NGS's "VERTCON" elevations were adjusted to NAVD88 Datum elevation of 1333.85'

The coordinates and elevations for the requested wells are listed on the following page of this report.

BRIAN L. PELTIER
LICENSED
LS-1517
11/11/16
KANSAS
LAND SURVEYOR

Brian Peltier
Kansas PS #1517

Merestone Surveying
1641 N. Andover Rd
Andover, KS 67002
P: 316.425.7770 F: 316.425.7773
www.merestoneks.com

Merestone Surveying

GSI Engineering
4503 E. 47th Street South
Wichita, KS 67210

November 10, 2016
Job # 16-11-257

SURVEYING OF MONITORING WELL LOCATIONS
FORMER COASTAL MART #7301
Central and Maize
WICHITA, SEDGWICK COUNTY, KANSAS

WELL ID	NORTHING (NAD83 KS S) Latitude DD	EASTING (NAD83 KS S) Longitude DD	ELEV (NAVD88)	
Control Point				
City of Wichita BM	1688042.17	1612459.64	1333.85	Medallion
MW-09S	1688054.17	1612532.13	1334.02	TOC
SW-SW-SW-SW	N37.69393	W97.46245	1334.27	Rim
Sec 17-T27S-R1W				
MW-09D	1688051.36	1612532.40	1333.87	TOC
SW-SW-SW-SW	N37.69393	W97.46245	1334.15	Rim
Sec 17-T27S-R1W				
MW-10S	1688449.90	1612868.45	1346.68	TOC
NE-SW-SW-SW	N37.69501	W97.46127	1347.16	Rim
Sec 17-T27S-R1W				
MW-10D	1688453.83	1612868.77	1346.69	TOC
NE-SW-SW-SW	N37.69502	W97.46127	1347.08	Rim
Sec 17-T27S-R1W				
MW-12S	1687654.47	1612468.78	1326.08	TOC
SW-NW-NW-NW	N37.69284	W97.46269	1326.40	Rim
Sec 20-T27S-R1W				
MW-12D	1687659.35	1612469.06	1326.09	TOC
SW-NW-NW-NW	N37.69285	W97.46269	1326.45	Rim
Sec 20-T27S-R1W				
MW-13S	1687548.03	1612932.90	1339.55	TOC
SE-NW-NW-NW	N37.69253	W97.46109	1339.81	Rim
Sec 20-T27S-R1W				
MW-13D	1687547.71	1612944.43	1339.31	TOC
SE-NW-NW-NW	N37.69253	W97.46105	1339.60	Rim
Sec 20-T27S-R1W				

Merestone Surveying
1641 N. Andover Rd
Andover, KS 67002
P: 316.425.7770 F: 316.425.7773
www.merestoneks.com

By	Date	Page	Of
Coastal mart	11/10/16		
BP, JP, KG	4-MW Location	7 wells/location	

Merestone Surveying 316-425-7770

	BS	HI	FS	Elev	
BM	1.75	1335.60		1333.85	Cow Disk in the NE Island Intersection Maize / Central
MW-12D			9.51	1326.09	TOC
			9.15	1326.45	Rim
MW-12S			9.52	1326.08	TOC
			9.20	1326.40	Rim
BM	12.36	1346.21		1333.85	
MW-9S			12.19	1334.02	TOC
			11.94	1334.27	Rim
MW-9D			12.34	1333.87	TOC
			12.06	1334.15	Rim
MM Top Curb	7.35	1353.46	0.10	1346.11	
MW-10S			6.78	1346.68	TOC
			6.30	1347.16	Rim
MW-10D			6.77	1346.69	TOC
			6.38	1347.08	Rim
BM	11.90	1345.75		1333.85	
MM Asph Curb	2.30	1346.16	1.89	1343.86	
MW-13S			6.61	1339.55	TOC
			6.35	1339.81	Rim
MW-13D			6.85	1339.31	TOC
			6.56	1339.60	Rim

BORING LOG / MONITORING WELL SCHEMATIC

BH/MW No.	Location of Drill Hole	Well ID Tag No.	Driller	Geologist
MW - 9S	Former Coastal Mart 7301		James / Mason	Mike Balleau

Water Level Depths				Type of Surface	Drill Rig
While Drilling	End of Drilling	Static Level	Datum	Asphalt / Concrete / Grass	CME-75
				Drilling Method / Sampling Method	Total Depth
12'		15.0'		4.25" auger/split spoon	22'

Dpth. Ft.	Sample Data: Sample No. & Type	% Rcvr.	Head Space	Soil Description: USCS	Geological Description & Remarks (include USCS classification)	Dpth Ft.
			0.0	CL SC ML CH CS S	dark brown	
5			0.0	CL SC ML CH CS S	brown	5
					brown to red, w/ sand	
10			0.0	CL SC ML CH CS S	packed sand lens @ 11', clay w/ multiple instances of sand throughout, isolated from surrounding clays	10
15			n/a	CL SC ML CH CS S	red/brown clay w/ sand; sandy clay begins @ 13.5'	15
20				CL SC ML CH CS S	fat, red/brown, no sand	20
				CL SC ML CH CS S	strong hydrocarbon odor in bottom 7' of well	
25				CL SC ML CH CS S		25
30				CL SC ML CH CS S		30
35				CL SC ML CH CS S		35

Well Construction

Schematic

Details

Elevation
Casing:
Pad:

Protective Cover
Type:
Size:
Pad Size:

Well Seal
Type: chips
Amount: 125
Water: 13 gal

Well Pack
Type: 12-20
Amount: 325 lbs

Riser
Type: PVC
Schedule: 40
Inside Diam.: 2"
Length: 12'

Screen
Type: PVC
Schedule: 40
Slot: .010
Inside Diam.: 2"
Length: 10'

End Cap
Type: PVC
Length: 4"

Date Drilled 10.20

Date Cmpl.

GSI Engineering
4503 E 47th Street South
Wichita, KS 67210
316-554-0725

Project: Former Coastal Mart 7301
Location: Wichita, KS

BORING LOG / MONITORING WELL SCHEMATIC

BH/MW No.	Location of Drill Hole	Well ID Tag No.	Driller	Geologist
MW - 9d	Former Coastal Mart 7301		James / Mason	Mike Balleau

Water Level Depths				Type of Surface	Drill Rig
While Drilling	End of Drilling	Static Level	Datum	Asphalt / Concrete / Grass	CME-75
				Drilling Method / Sampling Method	Total Depth
16'				4.25" auger/split spoon	

Dpth. Ft.	Sample No. & Type	% Rcvr.	Head Space	USCS	Geological Description & Remarks (include USCS classification)	Dpth Ft.
			0.0	CL SC ML CH CS S	dark brown	
					brown	
5			0.4	CL SC ML CH CS S	reddish brown, some sand • intermittant gray clay	5
					(SAA)	
10			0.8	CL SC ML CH CS S	SAA, w/ sand • large grain, poorly sorted	10
					SAA, no gray	
15			16.3	CL SC ML CH CS S	SAA, strong hydrocarbon odor	15
					SAA	
20			n/a	CL SC ML CH CS S	SAA, increasing sand quantity	20
					SAA	
				CL SC ML CH CS S	SAA	
					transitions back to gray clay streaks	
25				CL SC ML CH CS S	light brown to reddish brown, moderate sand	25
30				CL SC ML CH CS S	SAA	30
					SAA	
35				CL SC ML CH CS S	SAA	35
					SAA	

Well Construction

Schematic	Details
	Elevation
	Casing:
	Pad:
	Protective Cover
	Type:
	Size:
	Pad Size:
	Well Seal
	Type:
	Amount:
	Water:
	Well Pack
	Type:
	Amount:
	Riser
	Type:
	Schedule:
	Inside Diam.:
	Length:
	Screen
	Type:
	Schedule:
	Slot:
	Inside Diam.:
	Length:
	End Cap
	Type:
	Length:
	Date Drilled
	Date Cmpl.

GSI Engineering
4503 E 47th Street South
Wichita, KS 67210
316-554-0725

Project: Former Coastal Mart 7301
Location: Wichita, KS

BORING LOG / MONITORING WELL SCHEMATIC

BH/MW No.	Location of Drill Hole	Well ID Tag No.	Driller	Geologist
MW -	Former Coastal Mart 7301		James / Mason	Mike Balleau

Water Level Depths				Type of Surface	Drill Rig
While Drilling	End of Drilling	Static Level	Datum	Asphalt / Concrete / Grass	CME-75
				Drilling Method / Sampling Method	Total Depth
				4.25" auger/split spoon	55

Dpth. Ft.	Sample Data: Sample No. & Type	% Rcvr.	Head Space	Soil Description: USCS	Geological Description & Remarks (include USCS classification)	Dpth Ft.
				CL SC ML CH (CS) S	grayish clay, significant sand	
					SAA	
40				CL (SC) ML CH CS S	well rounded, large grain, poorly sorted	40
					SAA	
45				CL SC ML CH CS S	SAA	45
					SAA	
				CL SC ML CH CS (S)	SAA, without clay	
50					SAA	50
				CL SC ML CH CS S	SAA	
					SAA, clay appears in bottom 18 inches intermittently	
55						55
				CL SC ML CH CS S		
60				CL SC ML CH CS S		60
65				CL SC ML CH CS S		65
70				CL SC ML CH CS S		70

Well Construction

Schematic

Details

Elevation
Casing:
Pad:

Protective Cover
Type:
Size:
Pad Size:

Well Seal
Type: chips
Amount:
Water:

Well Pack
Type: 12 - 20
Amount: 300 lbs

Riser
Type: PVC
Schedule: 40
Inside Diam.: 2"
Length: 45'

Screen
Type: PVC
Schedule: 40
Slot: .010
Inside Diam.: 2"
Length: 10'

End Cap
Type: PVC
Length: 4"

Date Drilled

Date Cmpl.

GSI Engineering
4503 E 47th Street South
Wichita, KS 67210
316-554-0725

Project: Former Coastal Mart 7301
Location: Wichita, KS

BORING LOG / MONITORING WELL SCHEMATIC

BH/MW No.	Location of Drill Hole	Well ID Tag No.	Driller	Geologist
MW - 10S	Former Coastal Mart 7301		James / Mason	Mike Balleau

Water Level Depths				Type of Surface	Drill Rig
While Drilling	End of Drilling	Static Level	Datum	Asphalt / Concrete / Grass	CME-75
				Drilling Method / Sampling Method	Total Depth
28'		32.20		4.25" auger/split spoon	35'

Dpth. Ft.	Sample No. & Type	% Rcvr.	Head Space	USCS	Geological Description & Remarks (include USCS classification)	Dpth Ft.
			0.0	CL CH SC CS ML S	dark brown to reddish brown	
5			0.0	CL CH SC CS ML S	SAA reddish brown to red medium grain, rounded	5
10			0.0	CL CH SC CS ML S	SAA SAA	10
15			0.1 0.0	CL CH SC CS ML S	packed sand lens @ 12.5' red to reddish brown, medium grain, rounded	15
20			0.0	CL CH SC CS ML S	SAA	20
			0.0	CL CH SC CS ML S	SAA SAA	
25			0.0	CL CH SC CS ML S	SAA SAA H_2O @ 28'	25
30			n/a	CL CH SC CS ML S	SAA, w/ sporadic sand • rounded, large, poorly sorted SAA,	30
35				CL CH SC CS ML S	SAA, SAA,	35

Well Construction

Schematic

Details

Elevation
Casing:
Pad:

Protective Cover
Type:
Size:
Pad Size:

Well Seal
Type: chips
Amount:
Water:

Well Pack
Type: 12-20
Amount: 625 lbs

Riser
Type: PVC
Schedule: 40
Inside Diam.: 2"
Length: 15'

Screen
Type: PVC
Schedule: 40
Slot: .010
Inside Diam.: 2"
Length: 20'

End Cap
Type: PVC
Length: 2"

Date Drilled 10·25

Date Cmpl.

GSI Engineering
4503 E 47th Street South
Wichita, KS 67210
316-554-0725

Project: Former Coastal Mart 7301
Location: Wichita, KS

BORING LOG / MONITORING WELL SCHEMATIC

BH/MW No.	Location of Drill Hole	Well ID Tag No.	Driller	Geologist
BH-10d	Former Coastal Mart 7301		James / Mason	Mike Balleau

Water Level Depths				Type of Surface	Drill Rig
While Drilling	End of Drilling	Static Level	Datum	Asphalt / Concrete / Grass	CME-75
				Drilling Method / Sampling Method	Total Depth
				4.25" ~~Dual Tube / Steel Drop Screen~~ SS	

Dpth. Ft.	Sample Data: Sample No. & Type	% Rcvr.	Head Space	Soil Description: USCS	Geological Description & Remarks (include USCS classification)	Dpth Ft.
			0.6	CL CH SC CS ML S	dark brown to reddish brown, some gravel	
					SAA	
5			0.0	CL CH SC CS ML S	reddish brown, sandy clay medium grain, rounded	5
					SAA	
10			0.0	CL CH SC CS ML S	SAA	10
					SAA	
15			0.0	CL CH SC CS ML S	packed sand, 12-12.3' return to previous sandy clay, reddish brown	15
20			0.0	CL CH SC CS ML S	SAA	20
					SAA	
25			0.0	CL CH SC CS ML S	SAA	25
					H_2O @ 28.5', SAA	
					sand lens from 29-30.5	
30			n/a	CL CH SC CS ML S	sand from 32-32.5	30
					SAA	
35				CL CH SC CS ML S	SAA	35
					sand from 34-35'	

Well Construction

Schematic	Details
	Elevation
	Casing:
	Pad:
	Protective Cover
	Type:
	Size:
	Pad Size:
	Well Seal
	Type:
	Amount:
	Water:
	Well Pack
	Type:
	Amount:
	Riser
	Type:
	Schedule:
	Inside Diam.:
	Length:
	Screen
	Type:
	Schedule:
	Slot:
	Inside Diam.:
	Length:
	End Cap
	Type:
	Length:
	Date Drilled
	Date Cmpl.

GSI Engineering
4503 E 47th Street South
Wichita, KS 67210
316-554-0725

Project: Former Coastal Mart 7301
Location: Wichita, KS

BORING LOG / MONITORING WELL SCHEMATIC

BH/MW No.	Location of Drill Hole	Well ID Tag No.	Driller	Geologist
MW - 10d	Former Coastal Mart 7301		James / Mason	Mike Balleau

Water Level Depths				Type of Surface	Drill Rig
While Drilling	End of Drilling	Static Level	Datum	Asphalt / Concrete / Grass	CME-75
28.5'				Drilling Method / Sampling Method	Total Depth
				4.25" auger/split spoon	55'

Dpth. Ft.	Sample No. & Type	% Rcvr.	Head Space	USCS	Geological Description & Remarks (include USCS classification)	Dpth Ft.
			n/a	CL SC ML CH CS S	SAA SAA	
					no sand	
40				CL SC ML CH CS S	packed very tight, minimal return in sampler • reddish brown	40
45				CL SC ML CH CS S	reddish brown to gray large grain, well rounded poorly sorted	45
50				CL SC ML CH CS S	occassional gray clay seams ~ 1" thick	50
55				CL SC ML CH CS S		55
				CL SC ML CH CS S		
60				CL SC ML CH CS S		60
65				CL SC ML CH CS S		65
70				CL SC ML CH CS S		70

Well Construction

Schematic

Details

Elevation
Casing:
Pad:

Protective Cover
Type:
Size:
Pad Size:

Well Seal
Type: chips
Amount: 700 lbs
Water: 70 gal

Well Pack
Type: 12 - 20
Amount: 275 lbs

Riser
Type: pvc
Schedule: 40
Inside Diam.: 2"
Length: 45

Screen
Type: pvc
Schedule: 40
Slot: .010
Inside Diam.: 2"
Length: 10'

End Cap
Type: pvc
Length: 2"

Date Drilled 10 · 25

Date Cmpl.

GSI Engineering
4503 E 47th Street South
Wichita, KS 67210
316-554-0725

Project: Former Coastal Mart 7301
Location: Wichita, KS

BORING LOG / MONITORING WELL SCHEMATIC

BH/MW No.	Location of Drill Hole	Well ID Tag No.	Driller	Geologist
MW - 12S	Former Coastal Mart 7301		James / Mason	Mike Balleau

Water Level Depths				Type of Surface	Drill Rig
While Drilling	End of Drilling	Static Level	Datum	Asphalt / Concrete / Grass	CME-75
14'				Drilling Method / Sampling Method	Total Depth
				4.25" auger/split spoon	20'

Dpth. Ft.	Sample Data: Sample No. & Type	% Rcvr.	Head Space	Soil Description: USCS	Geological Description & Remarks (include USCS classification)	Dpth Ft.
			6.0	CL SC ML CH CS S	dark brown, topsoil	
					brown	
5			0.1	CL SC ML CH CS S	brown, trace sand	5
					brown to light brown, sand	
10			0.0	CL SC ML CH CS S	light brown	10
					reddish brown, sand	
15			0.0	CL SC ML CH CS S	(water while drilling)	15
20			n/a	CL SC ML CH CS S	reddish brown, large grain sand prominent @ 19'	20
				CL SC ML CH CS S		
25				CL SC ML CH CS S		25
30				CL SC ML CH CS S		30
35				CL SC ML CH CS S		35

Well Construction

Schematic

Details

Elevation
Casing:
Pad:

Protective Cover
Type:
Size:
Pad Size:

Well Seal
Type: Chips
Amount:
Water:

Well Pack
Type: 12-20
Amount: 325 lbs

Riser
Type: pvc
Schedule: 40
Inside Diam.: 2"
Length: 10'

Screen
Type: pvc
Schedule: 40
Slot: .010
Inside Diam.: 2"
Length: 10

End Cap
Type: pvc
Length: 4"

Date Drilled 10-20

Date Cmpl.

GSI Engineering
4503 E 47th Street South
Wichita, KS 67210
316-554-0725

Project: Former Coastal Mart 7301
Location: Wichita, KS

BORING LOG / MONITORING WELL SCHEMATIC

BH/MW No.	Location of Drill Hole	Well ID Tag No.	Driller	Geologist
MW - 12d	Former Coastal Mart 7301		James / Mason	Mike Balleau

Water Level Depths				Type of Surface	Drill Rig
While Drilling	End of Drilling	Static Level	Datum	Asphalt / Concrete / Grass	CME-75
				Drilling Method / Sampling Method	Total Depth
29'				4.25" auger/split spoon	48'

Dpth. Ft.	Sample No. & Type	% Rcvr.	Head Space	USCS	Geological Description & Remarks (include USCS classification)	Dpth Ft.
			0.0	CL SC ML CH CS S	dark brown, top soil	
					dark brown	
5			0.0	CL SC ML CH CS S	dark brown	5
					dark brown, trace sand	
10			0.0	CL SC ML CH CS S	light brown, trace sand	10
					brown	
			0.4	CL SC ML CH CS S	brown, w/ some sand	
15					grey, sandy	15
			0.0	CL SC ML CH CS S	gray, saturated	
20						20
			0.0	CL SC ML CH CS S		
25			1.8	CL SC ML CH CS S		25
					w/ gray silt/clay	
30			n/a	CL SC ML CH CS S	encountered water	30
					large grain, rounded	
35				CL SC ML CH CS S		35

Well Construction

Schematic	Details
	Elevation
	Casing:
	Pad:
	Protective Cover
	Type:
	Size:
	Pad Size:
	Well Seal
	Type:
	Amount:
	Water:
	Well Pack
	Type:
	Amount:
	Riser
	Type:
	Schedule:
	Inside Diam.:
	Length:
	Screen
	Type:
	Schedule:
	Slot:
	Inside Diam.:
	Length:
	End Cap
	Type:
	Length:
	Date Drilled
	Date Cmpl.

GSI Engineering
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Wichita, KS 67210
316-554-0725

Project: Former Coastal Mart 7301
Location: Wichita, KS

BORING LOG / MONITORING WELL SCHEMATIC

BH/MW No.	Location of Drill Hole	Well ID Tag No.	Driller	Geologist
MW - 12d	Former Coastal Mart 7301		James / Mason	Mike Balleau

Water Level Depths				Type of Surface	Drill Rig
While Drilling	End of Drilling	Static Level	Datum	Asphalt / Concrete / Grass	CME-75
				Drilling Method / Sampling Method	Total Depth
		11.49		4.25" auger/split spoon	48'

Dpth. Ft.	Sample Data: Sample No. & Type	% Rcvr.	Head Space	Soil Description: USCS	Geological Description & Remarks (include USCS classification)	Dpth Ft.
			n/a	CL SC ML CH CS S	packed sand/gravel @ 37'	
					sand, large grain, rounded poorly sorted	
40				CL SC ML CH CS S		40
45				CL SC ML CH CS S		45
				CL SC ML CH CS S		
50				CL SC ML CH CS S		50
55				CL SC ML CH CS S		55
				CL SC ML CH CS S		
60				CL SC ML CH CS S		60
65				CL SC ML CH CS S		65
70				CL SC ML CH CS S		70

Well Construction

Schematic

Details

Elevation
Casing:
Pad:

Protective Cover
Type:
Size:
Pad Size:

Well Seal
Type: chips
Amount: 600 lbs
Water: 60 gal

Well Pack
Type: 12-20
Amount: 350 lbs

Riser
Type: PVC
Schedule: 40
Inside Diam.: 2"
Length: 38'

Screen
Type: PVC
Schedule: 40
Slot: .010
Inside Diam.: 2"
Length: 10'

End Cap
Type: PVC
Length: 2"

Date Drilled 10-19

Date Cmpl.

GSI Engineering
4503 E 47th Street South
Wichita, KS 67210
316-554-0725

Project: Former Coastal Mart 7301
Location: Wichita, KS

BORING LOG / MONITORING WELL SCHEMATIC

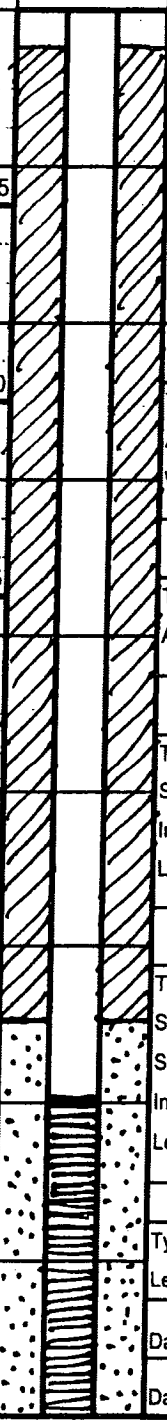
BH/MW No.	Location of Drill Hole	Well ID Tag No.	Driller	Geologist
BH-135	Former Coastal Mart 7301		James / Mason	Mike Balleau

Water Level Depths				Type of Surface	Drill Rig
While Drilling	End of Drilling	Static Level	Datum	Asphalt / Concrete / Grass	CME-75
27'		30.17		Drilling Method / Sampling Method: 4.25" ~~Dual Tube / Steel Drop Screen~~ SS	Total Depth: 38'

Dpth. Ft.	Sample Data: Sample No. & Type	% Rcvr.	Head Space	Soil Description: USCS	Geological Description & Remarks (include USCS classification)	Dpth Ft.
			0.0	CL CH SC CS ML S	brown, trace sand (top soil?)	
					light brown, w/ some sand	
5			0.0	CL CH SC CS ML S	reddish brown, w/ some sand	5
10			0.0	CL CH SC CS ML S	reddish brown, w/ sand	10
15			0.0	CL CH SC CS ML S	packed sand lens	15
20			0.0	CL CH SC CS ML S	reddish brown, w/ sand	20
			0.0	CL CH SC CS ML S		
25			0.0	CL CH SC CS ML S	(water?)	25
30			0.0	CL CH SC CS ML S	poorly sorted, large, well rounded	30
35			0.0	CL CH SC CS ML S		35

Well Construction

Schematic



Details

- Elevation
- Casing:
- Pad:
- Protective Cover
- Type:
- Size:
- Pad Size:
- Well Seal
- Type: chips
- Amount: 450 lbs
- Water: 45 gal
- Well Pack
- Type: 12-20
- Amount: 325 lbs
- Riser
- Type: pvc
- Schedule: 40
- Inside Diam.: 2"
- Length: 28'
- Screen
- Type: pvc
- Schedule: 40
- Slot: .010
- Inside Diam.: 2"
- Length: 10
- End Cap
- Type: pvc
- Length: 4'
- Date Drilled 10-18
- Date Cmpl.

GSI Engineering
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316-554-0725

Project: Former Coastal Mart 7301
Location: Wichita, KS

BORING LOG / MONITORING WELL SCHEMATIC

BH/MW No.	Location of Drill Hole	Well ID Tag No.	Driller	Geologist
BH - 13d	Former Coastal Mart 7301		James / Mason	Mike Balleau

Water Level Depths				Type of Surface	Drill Rig
While Drilling	End of Drilling	Static Level	Datum	Asphalt / Concrete / Grass	CME-75
				Drilling Method / Sampling Method	Total Depth
28'				Dual Tube / Steel Drop Screen	55'

Dpth. Ft.	Sample No. & Type	% Rcvr.	Head Space	USCS	Geological Description & Remarks (include USCS classification)	Dpth Ft.
			0.0	CL SC ML CH CS S	brown, top soil	
					brown, trace sand	
5			0.0	CL SC ML CH CS S	light brown, sand	5
					reddish brown, trace sand	
10			0.0	CL SC ML CH CS S	reddish brown, sand	10
					SAA	
15			0.0	CL SC ML CH CS S	SAA	15
					SAA	
20			0.0	CL SC ML CH CS S	SAA	20
					SAA	
			0.1	CL SC ML CH CS S	SAA	
25			0.0	CL SC ML CH CS S	(water?)	25
					• else as above	
					- poorly sorted, well rounded	
30				CL SC ML CH CS S	reddish brown, else as above	30
35				CL SC ML CH CS S	light red, w/ silt	35

Well Construction

Schematic

Details

Elevation

Casing:

Pad:

Protective Cover

Type:

Size:

Pad Size:

Well Seal

Type: chips

Amount: 650 lbs

Water: 65 gal

Well Pack

Type: 12-20

Amount: 325

Riser

Type: PVC

Schedule: 40

Inside Diam.: 2"

Length: 45

Screen

Type: PVC

Schedule: 40

Slot: .010

Inside Diam.: 2"

Length: 10'

End Cap

Type: PVC

Length: 4"

Date Drilled 10·19

Date Cmpl.

GSI Engineering
4503 E 47th Street South
Wichita, KS 67210
316-554-0725

Project: Former Coastal Mart 7301

Location: Wichita, KS

BORING LOG / MONITORING WELL SCHEMATIC

BH/MW No.	Location of Drill Hole	Well ID Tag No.	Driller	Geologist
BH-13d	Former Coastal Mart 7301		James / Mason	Mike Balleau

Water Level Depths				Type of Surface	Drill Rig
While Drilling	End of Drilling	Static Level	Datum	Asphalt / Concrete / Grass	CME-75
				Drilling Method / Sampling Method	Total Depth
				4.25" ~~Dual Tube / Steel Drop Screen~~ SS	55'

Dpth. Ft.	Sample Data: Sample No. & Type	% Rcvr.	Head Space	Soil Description: USCS	Geological Description & Remarks (include USCS classification)	Dpth Ft.
				CL SC ML CH CS S	light red, large, rounded	
40				CL SC ML CH CS S		40
45				CL SC ML CH CS S		45
50				CL SC ML CH CS S		50
55				CL SC ML CH CS S		55
				CL SC ML CH CS S		
60				CL SC ML CH CS S		60
65				CL SC ML CH CS S		65
70				CL SC ML CH CS S		70

Well Construction

Schematic

Details

Elevation
Casing:
Pad:

Protective Cover
Type:
Size:
Pad Size:

Well Seal
Type:
Amount:
Water:

Well Pack
Type:
Amount:

Riser
Type:
Schedule:
Inside Diam.:
Length:

Screen
Type:
Schedule:
Slot:
Inside Diam.:
Length:

End Cap
Type:
Length:

Date Drilled

Date Cmpl.

GSI Engineering
4503 E 47th Street South
Wichita, KS 67210
316-554-0725

Project: Former Coastal Mart 7301
Location: Wichita, KS

GSI Engineering	Project	
	Location	Date
	Calc by	Page of

25	MW13(d) - 25.42 1550 - 1610	static	51 gal	ditto
150	MW13(s) - 25.55 1450 - 1530	static	28 gal	very turbid → mostly clear
5	MW 10(s) - 31.71 11:01 - 12:25 34.50	static TD	12 gal	periodically dry very turbid → turbid
05	MW 10(d) - 33.25 (prior to art) 56.14 13:10 - 1405	static TD	64 gal	mostly turbid → mostly clear
	MW 12(s) 11.40 19.63 1600		24 gal	ditto
55	12(d) 11.58 48.30 14:45 - 15:30		52 gal	very turbid → clear
	MW-9 (s) 14.05 21.50	~9 gal, recharged and sampled		dry after 6 gal, near zero recharge after 15 min
	MW 9 (d) 19.02 54.39 1810	~ 56 gal		

22
55
35
55
20
48
38
55

Revised Monitoring Well Locations

Addtional wells added in city easement at location MW-B.