



March 24, 2016

North Carolina Department of Environmental Quality
Division of Waste Management – DSCA Program
1646 Mail Services Center
Raleigh, NC 27699-1646

Att: Jay King
DSCA Project Manager

Re: Prioritization Assessment Report Submittal
Jordan Cleaners, DSCA Site ID DC140001
220 Morganton Boulevard SW
Lenoir, Caldwell County, North Carolina 28645

Dear Mr. King:

URS Corporation – North Carolina (URS) is pleased to provide the attached Prioritization Assessment Report (PAR) Update for the former Jordan Cleaners site located at 220 Morganton Boulevard SW in Lenoir, Caldwell County, North Carolina.

This PAR Update includes the following: DSCA Assessment Report Forms, DSCA Analytical Data Tables (ADTs) for soil and groundwater results, soil boring logs, laboratory analytical reports, as well as soil and groundwater quality figures.

Specifically, this report includes documentation pertaining to the following site investigation activities completed in March 2016 in accordance with the Assessment Cost Proposal (ACP), dated February 29, 2016, and approved as State Lead Change Order 001A, dated March 14, 2016:

- The installation of two additional soil borings (SB-16 and SB-17) to supplement existing soil quality data and further delineate the extent of soil impacts; and
- The sampling of four groundwater monitoring wells (MW-1 through MW-4) to evaluate the extent of groundwater impacts beneath the site.

URS Corporation – North Carolina
6000 Fairview Road, Suite 200
Charlotte, North Carolina 28210
(704) 522-0330 Phone
(704) 522-0063 Fax



Mr. Jay King
Jordan Cleaners, DSCA Site ID DC140001
March 24, 2016
Page 2 of 2

If you have any questions or require additional information, please do not hesitate to call either Rob MacWilliams or Jeffrey T. Hvozdk at 704-522-0330.

Sincerely,

URS CORPORATION-NORTH CAROLINA

A handwritten signature in blue ink, appearing to read "Jeffery T. Hvozdk".

Jeffery T. Hvozdk, PG
Project Manager

A handwritten signature in blue ink, appearing to read "Rob H. MacWilliams".

Rob H. MacWilliams, PG
Program Manager

**Report Forms
for
North Carolina Dry-Cleaning Solvent Cleanup Act Program**

Facility Name:	Jordan Cleaners 220 Morganton Blvd SW, Lenoir, Caldwell County, North Carolina 28645
DSCA ID No.:	DC140001
Submittal Date:	3/24/2016
Prepared By:	URS Corporation - North Carolina Robert H. MacWilliams, PG & Jeffrey T. Hvozdk, PG

**Assessment Report Forms
for
North Carolina Dry-Cleaning Solvent Cleanup Act Program**

Facility Name:	Jordan Cleaners 220 Morganton Blvd. SW, Lenoir, Caldwell County, North Carolina 28645
DSCA ID No.:	DC140001
Submittal Date:	3/24/2016
Prepared By:	URS Corporation - North Carolina Robert H. MacWilliams, PG & Jeffrey T. Hvozdk, PG

DSCA ID No.: DC140001

Form/Att . No.	Description	Check box if included
Assessment Report Forms (Page 1 of 2)		
Form 1	Facility Information	<input checked="" type="checkbox"/>
Form 2	Site History	<input checked="" type="checkbox"/>
Form 3	Land Use and Receptor Survey	<input checked="" type="checkbox"/>
Form 4	Groundwater Use, Surface Water Use, and Ecological Survey	<input checked="" type="checkbox"/>
Form 5	Site Stratigraphy and Hydrogeology	<input checked="" type="checkbox"/>
Form 6	Non-Aqueous Phase Liquid (NAPL) Information	<input checked="" type="checkbox"/>
Assessment Report Attachments		
Att. 1	Site location map.	<input checked="" type="checkbox"/>
Att. 2	Historical aerial photographs and topographic maps.	<input type="checkbox"/>
Att. 3	Historical maps and fire insurance records and city directories.	<input type="checkbox"/>
Att. 4	Facility as-building drawings.	<input type="checkbox"/>
Att. 5	Facility layout diagram indicating the following (if applicable): (i) Service doors, (ii) current and historic location of drycleaning equipment, (iii) solvent/waste storage areas (including ASTs and USTs), (iv) distillation unit, (v) location of septic tank/drainfield or sanitary sewer lateral line, (vi) floor drains, (vii) storm sewer, (viii) expansion joints and cracks in floor, (ix) location of utilities, and (x) location of dumpsters.	<input checked="" type="checkbox"/>
Att. 6	Utility records, including videos of sewer lines and pressure testing.	<input type="checkbox"/>
Att. 7	Scaled vicinity map illustrating surrounding land use within 500 foot and 0.5 mile radii of the site.	<input type="checkbox"/>
Att. 8	USGS Quad map with plotted water well location(s) within the 1,500 foot, 0.5 and 1-mile radii of the site.	<input type="checkbox"/>
Att. 9	Area geologic map/relevant cross-sections.	<input checked="" type="checkbox"/>
Att. 10	Soil boring logs which must include the following: (i) OVA or other field screening readings, (ii) depth of samples collect, (iii) odor, (iv) staining, (v) blow counts (if applicable), (vi) interval recovery, (vii) structures and/or bedding, (viii) moisture content, and (ix) borehole disposition (abandonment or conversion to monitor well).	<input checked="" type="checkbox"/>
Att. 11	Site map showing location(s) of soil sample(s).	<input checked="" type="checkbox"/>
Att. 12	Soil contaminant concentration maps showing the concentration at each sampling point.	<input checked="" type="checkbox"/>
Att. 13	Soil isoconcentration maps.	<input type="checkbox"/>
Att. 14	Site map showing location(s) of monitoring well(s).	<input checked="" type="checkbox"/>
Att. 15	Well completion diagrams and records of construction submitted to state.	<input type="checkbox"/>
Att. 16	Groundwater gradient map.	<input checked="" type="checkbox"/>
Att. 17	Groundwater contaminant concentration maps showing the concentration at each sampling point and isoconcentration maps.	<input checked="" type="checkbox"/>
Att. 18	Map showing location(s) of surface water sample(s) (if applicable).	<input type="checkbox"/>
Att. 19	Surface water concentration map showing the concentration at each sampling point (if applicable).	<input type="checkbox"/>
Assessment Report Attachments continued (Page 2 of 2)		
Att. 20	Map showing location(s) of water supply well(s) (if applicable).	<input type="checkbox"/>
Att. 21	Laboratory analytical reports including chain-of custody and quality assurance/quality control (QA/QC) documentation.	<input checked="" type="checkbox"/>
Att. 22	Slug Tests	<input type="checkbox"/>
Att. 23	DSCA Groundwater Risk Calculators	<input type="checkbox"/>
Att. 24	Disclaimer	<input checked="" type="checkbox"/>
Att. 25		<input type="checkbox"/>

Note:
1. All maps must include a bar scale, north arrow, site name, DSCA ID No., and date.

Facility Information**AR Form 1****DSCA ID No.: DC140001**

- | | | |
|-------------------------------------|-------------------------------------|------|
| <input type="checkbox"/> | Currently operating facility since | |
| <input checked="" type="checkbox"/> | Previously operating facility since | 1993 |
| <input type="checkbox"/> | Temporarily out of service from | |
| <input checked="" type="checkbox"/> | Permanently out of service since | 2015 |

Provide the name, address and telephone number of the current dry-cleaning business and the dry-cleaning business owner. If no current business at the facility, provide the name and address of the last dry-cleaner doing business at the site.

Facility name:	Jordan Cleaners / Piedmont Cleaners
Facility address (include name of shopping centre and the county where facility is located):	220 Morganton Blvd. SW Lenoir, North Carolina 28645 Caldwell County
Facility telephone number (if applicable):	
Facility Owner's Name:	Gateway 4 Properties
Owner's Mailing Address:	236 Morganton Blvd. SW Lenoir, NC 28645 Caldwell County
Owner's Telephone number:	828-754-3261

Provide the earliest known date of the facility use for dry-cleaning business and the name of the dry-cleaning business (if applicable).

Drum's Service Cleaners/Morrison Quality Cleaners (circa 1993)

Provide information on businesses that occupied the facility that may use or have used solvents and other chemicals. Identify solvents and chemicals used at the facility (if applicable).

Per review of historical documents (i.e. DSCA Compliance Program Inspection Reports, the property record card, aerial photographs, topographic maps, city directories, sanborn maps, etc.), the site/petitioned property existed only as agricultural land prior to 1970. Circa 1970, the site/petitioned property was developed in phases as a retail strip mall. Boiler inspections dating back to 1993, documented in the DSCA Compliance Program Inspection Report (4/29/2011), were performed at this location for Drum's Service Cleaners and Morrison Quality Cleaners. In addition, Jordan Cleaners reportedly operated as a drop off facility at this location from the 1990s to 2007. However, the DSCA Compliance Program Inspection Report dated 10/14/2014 identified air quality inspections performed for tetrachloroethene (PCE) and an assigned Environmental Protection Agency (EPA) identification number for Jordan Cleaners which suggests that the Jordan Cleaners (as well as Drum's Service Cleaners and Morrison Quality Cleaners) operated as a full service dry cleaning plant(s). In 2007, equipment from the former Piedmont Cleaners located at 109 Pennton Ave. SW was moved to the Jordan Cleaners facility at 220 Morganton Blvd. SW. From 2007 to 2015, the facility continued to operate as Piedmont Cleaners, a full service PCE dry cleaning plant. In 2015, the Piedmont Cleaners equipment was decommissioned and the building was demolished.

Report Prepared By

I certify that the prioritization assessment as stated in this report was prepared under my supervision.

	3/24/2016
Contractor	Date
Robert H. MacWilliams	URS Corporation - North Carolina
Printed Name	Company Name

DSCA ID No.: DC140001

Number of dry-cleaning machines used at current or former facility: **1**
 Type of dry-cleaning machines used at current or former facility (e.g., transfer, dry-to-dry with vented exhaust, etc.).

No dry cleaning machines (DCMs) or equipment was reported for the former Jordan Cleaners. The former Piedmont Cleaners utilized dry-to-dry Permac / Bowe M40, 3rd Generation, DCM (Model # M-40CT, serial #558/8606) with a 40 pound capacity. Other equipment identified included a Kleen-Rite Hydro-Mister wastewater treatment unit (WWTU), an evaporator, clothes press, and spotting table.

Type of dry-cleaning solvents used by each type of machine.

The former Piedmont Cleaners is documented as having utilized dry cleaning solvents that contained PCE.

Where are/were the dry-cleaning solvents stored at the facility site? (Machine base tanks, UST(s), AST(s), etc.)

The equipment at the former Piedmont Cleaners utilized a machine-based tank.

Are chlorinated dry cleaning solvents delivered to the facility by means of a closed, direct-coupled delivery system?

Per the the DSCA Compliance Program Inspection report dated 4/29/2011, the DCM was equipped with closed-loop solvent transfer connections for both Fuller Supply Company (FSC) and N.S. Farrington.

Are virgin (new) solvents stored in containers other than the dry-cleaning machine?

Yes No

Are or were any USTs or ASTs used to store any petroleum or hazardous substances other than dry-cleaning solvents at the facility site?

Yes No

If yes, provide information about the substance stored, year taken out of service, virgin solvent or waste solvent, etc.

What methods of disposal are used or have been used for separator water?

Per the Follow-Up Inspection Piedmont Cleaners 140001C Memo dated 1/13/2012, the operator of the former Piedmont Cleaners reportedly drummed and stored separator water in the boiler room without secondary containment. The drummed separator water was left uncovered to evaporate.

Provide information about the current/historical waste management practices, including types of wastes that are/were generated and how the waste are/were stored and managed.

Per review of the DSCA Compliance Program Inspection Reports and Memos dated 10/29/2009, 12/08/2010, 3/17/2011, 1/13/2012, 9/19/2014, 10/14/2014, and 6/1/2015, the former Piedmont Cleaners reportedly stored hazardous waste and wastewater in drums and buckets around the DCM and/or in the boiler room. These areas were not equipped with the proper spill containment, nor was the WWTU ever operable. In addition, spills and/or heavily soiled flooring was observed at the bases of numerous pieces of dry cleaning equipment during inspection. MCF Systems of Atlanta and/or Safety Kleen have been reportedly used to remove hazardous waste and wastewater from the former Piedmont Cleaners; however, no valid waste manifests were kept or provided during the inspections. The waste management practices of the former Drum's Service Cleaners, Morrison Quality Cleaners and Jordan Cleaners are unknown, and the disposal practices of the hazardous waste and wastewater generated by Piedmont Cleaners since 2007 is not well documented.

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Source(s) of Release

- | | |
|---|---|
| <input type="checkbox"/> Spills/Overfills | <input type="checkbox"/> Tanks |
| <input type="checkbox"/> Piping | <input checked="" type="checkbox"/> Unknown |
| <input type="checkbox"/> Other (specify) <u>The source of the chlorinated solvents is likely to be the result of undocumented spills/releases and/or improper waste disposal practices during the historic dry cleaning operations conducted at the site.</u> | |

Chemicals of Concern

- | | |
|--|--|
| <input type="checkbox"/> 1,1,1-Trichloroethane | <input checked="" type="checkbox"/> cis-1,2-Dichloroethylene |
| <input type="checkbox"/> 1,1,2,2-Tetrachloroethane | <input type="checkbox"/> Ethylbenzene |
| <input type="checkbox"/> 1,1,2-Trichloroethane | <input type="checkbox"/> Methyl tert-butyl ether (MTBE) |
| <input type="checkbox"/> 1,1-Dichloroethane | <input type="checkbox"/> Naphthalene |
| <input type="checkbox"/> 1,1-Dichloroethylene | <input checked="" type="checkbox"/> Tetrachloroethylene |
| <input type="checkbox"/> 1,2-Dichloroethane (EDC) | <input type="checkbox"/> Toluene |
| <input type="checkbox"/> Benzene | <input checked="" type="checkbox"/> trans-1,2-Dichloroethylene |
| <input type="checkbox"/> Benzo(a)pyrene | <input type="checkbox"/> Trichloroethylene |
| <input type="checkbox"/> Carbon tetrachloride | <input checked="" type="checkbox"/> Vinyl chloride |
| <input type="checkbox"/> Chloroform | <input type="checkbox"/> Xylenes (total) |
| <input checked="" type="checkbox"/> Others | |
| <u>Methylene Chloride</u> | |

Additional Notes

Historical information pertaining to the site was obtained from Environmental Data Resources (EDR) and included the following: the 1936, 1947, 1951, 1961, 1966, 1976, 1983, 1993, 1998, 2005, 2006, 2008, 2009, 2010 and 2012 aerial photos; the 1905, 1956, 1994, 1995 and 2013 topographic maps; historic city directories and sanborn maps. Additional property information (i.e. property information, deeds, public and private well information, etc.) was obtained through online research.

The percentage of area paved represents the sum of all building square footages and pavement square footages compared to the parcel square footage as reported on the Caldwell County Property Record Card for the petitioned property (parcel identification number 09-34-6-5).

Only the chemical constituents that have exceeded their respective soil and/or groundwater standards are included as a COC. Based upon laboratory analysis of soil samples collected from SB-1 through SB-15, PCE, cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), vinyl chloride, and methylene chloride have been detected in soil samples collected beneath the site at concentrations exceeding their respective September 2015 Inactive Hazardous Sites Branch (IHSB) Preliminary Soil Remediation Goals (PSRGs). In addition, concentrations of trichloroethene (TCE), acetone, methyl ethyl ketone (MEK), toluene, chlorobenzene, 1,4-dichlorobenzene (1,4-DCB), isopropylbenzene (IPB), 1,2,4-trimethylbenzene (1,2,4-TMB), 1,3,5-trimethylbenzene (1,3,5-TMB) and o-xylene were also identified in the soil samples collected onsite but did not exceed their respective PSRGs. Groundwater analytical results from the December 2015 sampling event indicate concentrations of PCE in excess of 15A NCAC 02L.0202 Groundwater Standards (2L Standards) in one monitoring wells (MW-1).

DSCA ID No.: DC140001

Land Use

On-site Land Use	Current	Future
Residential	<input type="radio"/>	<input type="radio"/>
Commercial/Industrial	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Other	<input type="radio"/>	<input type="radio"/>

Justify the choice for future land use:

The site is zoned for commercial use (B-2, General) and is currently vacant. The site is surrounded primarily by commercial (B-2, General; and B-1, Neighborhood Business), and residential (R-12, Single Family Residential) property. Future land use designations are not anticipated to change.

Immediate Off-site Land Use (within 500 feet - at a minimum, state whether, residential, commercial/industrial, agricultural, or ecologically sensitive area). Indicate distances to residential/commercial/industrial buildings having basements which are occupied.

North:	Thrift St. SW, then commercial properties addressed at: 121 Pennton Ave. SW; 109 Pennton Ave. SW; 239 Harper Ave. SW; and 302 Harper Ave. SW.
Northeast:	Thrift St. SW, then commercial properties addressed at: 222 - 228 Thrift St. SW; 225 Harper Ave. SW; and 110 Morganton Blvd. SW
Northwest:	Thrift St. SW, Pennton Ave. SW, then commercial properties addressed at: 116 Pennton Ave. SW; 106 Pennton Ave. SW; and 313 Harper Ave. SW
South:	Commercial properties at 222 - 240 Morganton Blvd. SW
Southeast:	Commercial properties at 222 - 240 Morganton Blvd. SW, then Morganton Blvd. SW
Southwest:	Pennton Ave. SW, then single family residences at: 401 Highland Ave. SW; 228 Pennton Ave. SW; 302 Pennton Ave. SW; 407 Highland Ave. SW; and 411 Highland Ave. SW
West:	Pennton Ave. SW, then a single family residence at 401 Highland Ave. SW
East:	Commercial properties at 214 Morganton Blvd. SW and 208 Morganton Blvd. SW, then Morganton Blvd. SW

Receptor Survey

List the distance and the direction (downgradient, upgradient, or crossgradient) to these facilities within 0.5 mile radius of the site (If necessary provide details in additional notes).

	Distance [feet]	Direction
Nearest residential site:	165	W - Upgradient
Nearest commercial/industrial site:	0	Site
If site is vacant, nearest inhabited building:	15	S - Downgradient
Nearest ecologically sensitive area (agricultural areas, parks/recreational areas, wildlife sanctuaries, wetlands):	775	E - Downgradient
Nearest school, hospital, day care, nursing home etc.:	1,860	SW - Upgradient
Nearest public supply well:	>5,280	NA
Nearest private supply well:	2,485	SE - Upgradient
Nearest point of exposure (current or potential) for groundwater ingestion:	480	SSE - Downgradient
Nearest surface water body:	615	E - Downgradient

Additional Notes

A well survey was conducted in accordance with NCDEQ, Division of Waste Management (DWM), Superfund Section, NC Dry-Cleaning Solvent Cleanup Program Guidance for Conducting the Prioritization Assessment (October 2004) as directed by the DSCA Contractor Bulletin #4 dated October 21, 2004, as well as the revised procedures communicated by the DSCA Program on May 6, 2013. Nearest residential property: 401 Highland Ave. SW. Nearest inhabited commercial building: McLeod Center, 222 Morganton Blvd. SW. Nearest ecologically sensitive area: Lenoir Golf Course, 701 Norwood St. SW. Nearest public assembly: Caldwell Memorial Hospital, 321 Mulberry St. SW. Nearest potential point of exposure (POE) for groundwater ingestion (from MW-1 to property boundary downgradient of groundwater flow) right-of-way (ROW) for Morganton Blvd. SW. Nearest public water supply well (WSW): not applicable; no public WSWs have been identified within 1 mile of the site. Nearest potential private WSW: 153 Hillhaven Pl. SE. Nearest surface water body: Zack's Fork Creek.

DSCA ID No.: DC140001

Groundwater Use

Is the groundwater used on-site? Yes No

If yes, specify the use:

- Potable domestic supply
- Non-potable domestic supply
- Public/Municipal supply
- Industrial supply
- Agriculture

Other (explain in space provided below)

Surface Water Use

Is a surface water body present in 1,000 feet radius of the site? Yes No

If yes, specify the following:

Type of water body River Wet weather creek Drain ditch Regular creek
 Other:

North Carolina classification of water body **Class C: Zack's Fork Creek and Lower Creek**

Does the water discharges into lake or reservoir? Yes No

Surface water use:

- Potable domestic supply
- Non-potable domestic supply
- Public/Municipal supply
- Industrial supply
- Agriculture

Other (explain in space provided below)

Based on review of the United States Geological Survey (USGS) Topographic Map of Lenoir, North Carolina dated 1995, the closest downgradient surface water features are Zack's Fork Creek and Lower Creek. Per the North Carolina Division of Water Quality (NC DWQ) Surface Water Classifications for the Catawba River Basin (2013), Zack's Fork Creek and Lower Creek are classified as Class C water bodies. Class C water bodies are protected for such uses as secondary recreation, fishing, wildlife, fish consumption, aquatic life including propagation, survival and maintenance of biological integrity, and agriculture.

Ecological Receptors and Habitats

1. Are there any ecological receptors or habitats present within 500 feet radius from the site? Yes No
2. Are there visible indications of stressed receptors or habitats on or near the site that may be a result of chemical release? Yes No

Water Well(s) Information

1. Are there public/municipal water supply wells within 0.5 mile radius from the Yes No
2. Are there private water supply wells within 1500 feet radius from the site? Yes No

Additional Notes

According to the NCDEQ, Division of Water Resources (DWR), Drinking Water Protection Program, there were no source water areas or public WSWs within 1 mile of the site. In addition, Caldwell County Environmental Health records dating back to 1973 did not identify any registered WSWs within the specified search radii. However, windshield survey activities identified six potential private WSWs, and The City of Lenoir could not verify municipal water connections for approximately 820 properties within the 1 mile search radius. Only the six potential WSWs identified during the windshield survey activities are depicted on Attachment 8 and detailed on ADT 10. URS reviewed surface water classification information for the Catawba River basin at: <http://portal.ncdenr.org/web/wq/ps/csu/classifications>.

DSCA ID No.: DC140001

Stratigraphy of Site

Depth [feet]	Description of Soil
0-20	Dark brown (or gray) to light brown (or gray) silty F. SAND (SM), micaceous
Predominant Soil Type: Silty Sand (SM)	
Depth [feet]	Type of Bedrock and Geological Formation
>20	Migmatic Granitic Gneiss

Hydrogeology of the Saturated Impacted Zone

Type of Aquifer?	<input type="radio"/> Confined <input checked="" type="radio"/> Unconfined <input type="radio"/> Perched
Underlying predominant aquifer name:	Surficial
Aquifer classification (if applicable):	N/A
Range of groundwater level fluctuations [feet bgs]:	2.44' bgs at MW-4 to 8.62' bgs at MW-2
Average depth to water table/static water level:	6.38
Flow direction:	SSE
Hydraulic gradient (i) [--]:	0.011
Hydraulic conductivity (K) [cm/year]:	3554.50
Darcy velocity (K x i) [cm/year-calculated]:	38.76
Groundwater velocity (K x i/Porosity) [cm/year]:	117.45
Annual precipitation (average for last 30 years) [inches/year]:	47.68

Additional Notes

Site stratigraphy was described using boring logs for SB-1 through SB-17, and monitoring well construction logs for MW-1 through MW-4. Bedrock was not encountered during assessment activities; however, the site is mapped within the Ordovician to Cambrian-aged Migmatic Granitic Gneiss (OCgm) of the Inner Piedmont Belt and described on the Geologic Map of North Carolina (1985). Calculated groundwater flow direction of the shallow, unconfined aquifer system trends to the SSE with an average hydraulic gradient of 0.011 feet per foot (ft/ft) calculated between monitoring wells MW-1 and MW-3 on 12/9/2015 and 3/9/2016. Average hydraulic conductivity (3,554.5 centimeters per year [cm/year]) calculated from rising head slug tests conducted on 12/9/2015 in monitoring well MW-3 (2,592 cm/year) and monitoring well MW-4 (4,517 cm/year). Groundwater velocity was calculated using an estimated effective porosity of 0.33 for sandy soil (McWhorter and Sunada,1977). Average annual precipitation data for Lenoir, NC was obtained from US Climate Data (1981-2010, <http://www.usclimatedata.com/climate/lenoir/north-carolina/united-states/usnc0384>).

Vadose Zone Characteristics

	Values/Range		Method
Dry bulk density [g/cm ³]	1.29	<input type="checkbox"/> Estimated <input checked="" type="checkbox"/> Measured	
Total porosity [cm ³ /cm ³]:	0.49	<input type="checkbox"/> Estimated <input checked="" type="checkbox"/> Measured	
Effective porosity [cm ³ /cm ³]:	0.33	<input checked="" type="checkbox"/> Estimated <input type="checkbox"/> Measured	
Water content [cm ³ /cm ³]:	0.49	<input type="checkbox"/> Estimated <input checked="" type="checkbox"/> Measured	
Fractional organic carbon content [g-C/g-soil]:	0.0097	<input type="checkbox"/> Estimated <input checked="" type="checkbox"/> Measured	WB

Saturated Zone Characteristics			
	<u>Values/Range</u>	<input type="checkbox"/> Estimated <input checked="" type="checkbox"/> Measured	<u>Method</u>
Dry bulk density [g/cm ³]	1.37	<input type="checkbox"/> Estimated <input checked="" type="checkbox"/> Measured	
Total porosity [cm ³ /cm ³]:	0.47	<input type="checkbox"/> Estimated <input checked="" type="checkbox"/> Measured	
Effective porosity [cm ³ /cm ³]	0.33	<input checked="" type="checkbox"/> Estimated <input type="checkbox"/> Measured	
Water content [cm ³ /cm ³]:	0.42	<input type="checkbox"/> Estimated <input checked="" type="checkbox"/> Measured	
Fractional organic carbon content [g-C/g-soil]:	0.00096 J	<input type="checkbox"/> Estimated <input checked="" type="checkbox"/> Measured	WB
Additional Notes			
<p>Effective porosity estimate based on observations of soils at similar locations (McWhorter and Sunada, 1977). Measured vadose zone characteristics were obtained from shelly tubes collected from 5 to 7 feet bgs in monitoring well MW-4. Measured saturated zone characteristics were obtained from shelly tubes collected from 15 to 17 feet bgs in MW-4. Fractional Organic Content (FOC) was measured by the Walkley Black Method. All sample concentrations that are less than the reporting limit, but greater than the method detection limit are estimated (J).</p>			

DSCA ID No.: DC140001

Was NAPL discovered at the site:

Yes No

If Yes, type of NAPL discovered:

LNAPL

DNAPL

Summary of LNAPL

Date LNAPL was discovered?

Type of LNAPL discovered (if known):

Number of monitoring wells/points currently at site:

Number of monitoring wells/points containing LNAPL (Note if any, list the monitoring wells/points containing NAPL):

Has LNAPL removal started?

If No, cite reason:

If Yes, specify method of removal (bailer, pump, etc.):

Removal points (MW #, Boring #, etc.):

Total number of recovery events to date:

Total amount of purge-water recovered:

Total amount of LNAPL recovered:

Date of latest LNAPL removal report submitted:

Summary of DNAPL

Date DNAPL was discovered?

Type of DNAPL discovered (if known):

Number of monitoring wells/points currently at site:

Number of monitoring wells/points containing DNAPL (Note if any, list the monitoring wells/points containing DNAPL):

Has DNAPL removal started?

If No, cite reason:

If Yes, specify method of removal (bailer, pump, etc.):

Removal points (MW #, Boring #, etc.):

Total number of recovery events to date:

Total amount of purge-water recovered:

Total amount of DNAPL recovered:

Date of latest DNAPL removal report submitted:

Additional Notes

Large empty rectangular area for additional notes.

Analytical Data Tables
for
North Carolina Dry-Cleaning Solvent Cleanup Act Program

Facility Name:	Jordan Cleaners
	220 Morganton Blvd. SW, Lenoir, Caldwell County, North Carolina
DSCA ID No.:	DC140001
Submittal Date:	3/24/16
Prepared By:	Robert H. MacWilliams, PG, Jeffrey T. Hvozdk, PG
	URS Corporation - North Carolina

Table of Contents		ADT TOC
DSCA ID No.: DC140001		
Table/ Att. No.	Description	Check box if included
Tables		
Table 1	Site Chronology	<input checked="" type="checkbox"/>
Table 2	Analytical Data for Soil	<input checked="" type="checkbox"/>
Table 3	Analytical Data for Sub-slab Gas	<input type="checkbox"/>
Table 4	Analytical Data for Soil Gas	<input type="checkbox"/>
Table 5	Analytical Data for Indoor and Outdoor Air	<input type="checkbox"/>
Table 6	Monitoring Well Construction Data	<input checked="" type="checkbox"/>
Table 7	Groundwater Elevation Data	<input checked="" type="checkbox"/>
Table 8	Analytical Data for Groundwater	<input checked="" type="checkbox"/>
Table 9	Analytical Data for Surface Water	<input type="checkbox"/>
Table 10	Water Well(s) Survey Data	<input checked="" type="checkbox"/>
Table 11	Analytical Data for Water Supply Well(s)	<input type="checkbox"/>
Table 12	Analytical Data for Natural Attenuation Parameters	<input checked="" type="checkbox"/>
Attachments		
Att. 1	Site map showing location(s) of soil boring(s).	<input type="checkbox"/>
Att. 2	Soil contaminant concentration maps showing the concentration at each sampling point.	<input type="checkbox"/>
Att. 3	Soil isoconcentration maps.	<input type="checkbox"/>
Att. 4	Site map showing location(s) of monitoring well(s).	<input type="checkbox"/>
Att. 5	Well completion diagrams and records of construction submitted to state.	<input type="checkbox"/>
Att. 6	Groundwater gradient map for each sampling event.	<input type="checkbox"/>
Att. 7	PCE concentration map showing the concentration at each sampling point and isoconcentration map. However, if there are significant plumes for other dry-cleaning contaminants, contaminant concentration maps for each chemical of concern should be included.	<input type="checkbox"/>
Att. 8	Groundwater concentration trend plots.	<input type="checkbox"/>
Att. 9	Map showing location(s) of surface water sample(s) (if applicable).	<input type="checkbox"/>
Att. 10	Surface water concentration map showing the concentration at each sampling point (if applicable).	<input type="checkbox"/>
Att. 11	USGS Quad map with plotted water well location(s) within the 1,500 foot, 0.5 mile and 1 mile radii of the site (if applicable).	<input type="checkbox"/>
Att. 12	Site map showing location(s) of monitoring well(s) for natural attenuation parameters.	<input type="checkbox"/>
Att. 13	Site map showing location(s) of indoor air, outdoor air, or soil gas samples.	<input type="checkbox"/>
Att. 14	Air and soil gas concentration map showing the concentration at each sampling point.	<input type="checkbox"/>
Att. 15	Signed laboratory analytical reports including chain-of custody and quality assurance/quality control (QA/QC) documentation (only if not previously submitted).	<input type="checkbox"/>
Att. 16		<input type="checkbox"/>
Att. 17		<input type="checkbox"/>
Att. 18		<input type="checkbox"/>
Att. 19		<input type="checkbox"/>
Att. 20		<input type="checkbox"/>
Att. 21		<input type="checkbox"/>
<p>Note:</p> <p>1. All maps must include a bar scale, north arrow, site name, DSCA ID No., and date.</p>		

Table 1: Site Chronology	ADT 1
---------------------------------	--------------

DSCA ID No.: DC140001

Chronology of Events	
-----------------------------	--

Date	Instructions: Brief description of all significant events that have occurred since a problem was suspected at the facility. Commence with the first date a problem was suspected and continue through the most recent activity described in the current report.
1970	Per review of historical documents provided by EDR (i.e. aerial photographs, topographic maps, city directories, and sanborn maps), the site/petitioned property existed only as agricultural land prior to 1970. Per the Caldwell County Property Record Card for parcel number 09- 34 - 6- 5, the site/petitioned property began development into a retail strip mall.
1993	The site is believed to have operated as Jordan Cleaners, a pick up store without dry cleaning equipment, since the 1990's. However, according to the DSCA Compliance Program Inspection Report dated 4/29/2011, boiler inspections were performed at this location for Drum's Service Cleaners and Morrison Quality Cleaners, which suggests that the facility operated as a full service dry cleaning plant since at least 1993.
1998	As documented in the DSCA Compliance Program Inspection Report dated 10/14/2014, Jordan Cleaners was listed on an Envirofacts database that indicated air quality inspections were performed from 1998 - 2005. The DSCA Compliance Program Inspection report also indicated that an EPA ID number (NCD981480858) was assigned to Jordan Cleaners at the current physical address which further supports Jordan Cleaners operating as a full service dry cleaning plant.
7/4/2007	Operations at the former Piedmont Cleaners facility located at 109 Pennton Avenue SW were moved to the site (220 Morganton Blvd. SW) where operations continued doing business as Piedmont Cleaners.
10/29/2009	Per the DSCA Compliance Program Outreach Site Visit Report dated 10/29/2009, the facility was classified as a new, small, PCE dry cleaning facility (SIC 7216 / NAICS 81232). The facility reportedly operated a dry-to-dry Permac / Bowe M40, 3rd Generation, DCM (Model # M-40CT, serial #558/8606) with a 40 pound capacity. The facility had purchased 165 gallons of solvent from FSC and the N. S. Farrington Company in the past 12 months. Approximately 120 gallons of used solvent was being stored onsite, with approximately 30 gallons of new solvent stored in the DCM. The facility is identified as a small quantity generator (SQG) of hazardous waste but does not utilize a wastewater treatment unit (WWTU). In summary, numerous violations and areas of concern were identified which required corrective action.
10/30/2009	Following the 10/29/2009 outreach inspection, the DSCA Compliance Program issued a corrective action letter (CAL) citing numerous violations related to the following: record keeping, spill containment; and waste management. Specifically, spill containment was inadequate; hazardous waste was improperly labeled, stored, treated and/or disposed of; receipts, manifests, and logs were not being maintained; and equipment inspections were not being performed routinely. It was also recommended that a WWTU or evaporator be used instead of drumming the contact/separator water.
12/8/2010	Per the DSCA Compliance Program Inspection Report dated 12/8/2010, closed-loop solvent transfer connections are used on the DCM, which was not previously documented. In addition, as of the date of the inspection (12/8/2010), the facility was classified as a Conditionally Exempt Small Quantity Generator (CESQG) due to less than 140 gallon of solvent purchased within the last 12 months (receipts provided showed 75 gallons of solvent were purchased within the last 12 months). However, hazardous waste removal could not be confirmed by MCF Systems of Atlanta (MCF) or Saftey Kleen. The compliance inspection also revealed continued non-compliance and reported violations which required corrective action. Specifically, approximately 750 pounds of hazardous waste and 500 pounds of used solvent were stored onsite; contact water was being evaporated (not an approved method for wastewater disposal); inadequate spill containment with observation reporting heavily soiled flooring within the containment area; improper hazardous waste management; and failure to perform equipment inspections and maintain logs/records.
12/22/2010	A Notice of Violation (NOV)/Notice of Recommendation for Enforcement (NRE) was issued to the facility owner of Piedmont Cleaners for the violations cited in the 10/30/2009 CAL and in the 12/8/2010 compliance inspection.
3/17/2011	Per the DSCA Compliance Program Follow-Up Inspection Piedmont Cleaners 140001_C Memo dated 3/17/2011, no progress was reportedly made as of the date of the last inspection on 12/8/2010.
1/13/2012	Per the DSCA Compliance Program Follow-Up Inspection Piedmont Cleaners 140001_C Memo Fdated 1/13/2012, observations at the time of the inspection included: the lack of spill containment; failure to properly store hazardous wastes; failure to conduct monthly inspections; and failure to maintain records and logs.
8/17/2012	A notice of civil penalty was issued to the facility owner of Piedmont Cleaners.
9/19/2014	Per the DSCA Compliance Program Ownership Status of Piedmont Cleaners 140001_C Memo, the facility owner not able to be contacted, but Piedmont Cleaners is reportedly open for business.
10/24/2014	A NOV/NRE was issued to the facility owner of Piedmont Cleaners.

Table 1: Site Chronology	ADT 1
---------------------------------	--------------

DSCA ID No.: DC140001	
------------------------------	--

Chronology of Events	
-----------------------------	--

Date	Instructions: Brief description of all significant events that have occurred since a problem was suspected at the facility. Commence with the first date a problem was suspected and continue through the most recent activity described in the current report.
10/24/2014	Per the DSCA Compliance Program Inspection Report dated 10/24/2014, as of the date of the inspection (10/1/2014), the DCM and other ancillary equipment were not in operation and the DCM appeared to be empty of solvent, but spill containment had been installed around the DCM. Reportedly, the DCM had not been in operation for 1-2 years; however, 120 gallons of solvent was purchased from N.S. Farrington in 2013, with solvent most recently purchased in January 2014. In addition, approximately 600 pounds of hazardous waste was being stored at the site at the time of the inspection.
6/1/2015	Per the DSCA Compliance Program Piedmont Cleaners 140001C (Follow-Up Inspection) Memo dated 6/1/2015, Piedmont Cleaners was decommissioned with the DCM completely emptied of all remaining solvent and scrapped. Subsequently, the building was demolished.
8/10/2015	IBS Environmental Services (IBS) conducted a Limited Phase II Site Assessment (LSA) at the former Jordan Cleaners/Piedmont Cleaners location. Activities included the collection of five soil samples (O, E, S, M and MAWT) and one groundwater sample (MW). Low concentrations of PCE were identified in soil samples O and S, as well as groundwater sample MW. It was recommended that the site be evaluated for possible entry into the DSCA Program.
9/21/2015	A Petition for Certification into DSCA Program was filed for the site.
9/29/2015	The site was certified by the DSCA Program and assigned DSCA identification number DC140001.
12/7-10/15	URS conducted Prioritization Assessment (PA) activities which included: advancement of fifteen soil borings (SB-1 through SB-15); and the installation of four monitoring wells (MW-1 through MW-4). In addition, URS conducted well survey activities. The well survey was conducted in accordance with NCDEQ, DWM, Superfund Section, NC Dry-Cleaning Solvent Cleanup Program Guidance for Conducting the Prioritization Assessment (October 2004) as directed by the DSCA Contractor Bulletin #4 dated October 21, 2004, as well as the revised procedures communicated by the DSCA Program on May 6, 2013.
2/10/2016	URS submitted the Prioritization Assessment Report (PAR) to the DWM, DSCA Program at the attention of Mr. Jay King, Project Manager. Based on the data generated to date, additional soil assessment activities appear to be warranted to further define subsurface impacts beneath the site.
3/9/2016	URS conducted PA Update activities which included: advancement of two additional soil borings (SB-16 and SB-17); and a comprehensive groundwater monitoring event.
3/24/2016	URS submitted the PAR Update to the DWM, DSCA Program at the attention of Mr. Jay King, Project Manager. Based on the data generated to date, additional soil assessment activities do not appear to be warranted at this time. The site is a good candidate for closure. As such, groundwater should be monitored to demonstrate plume stability.

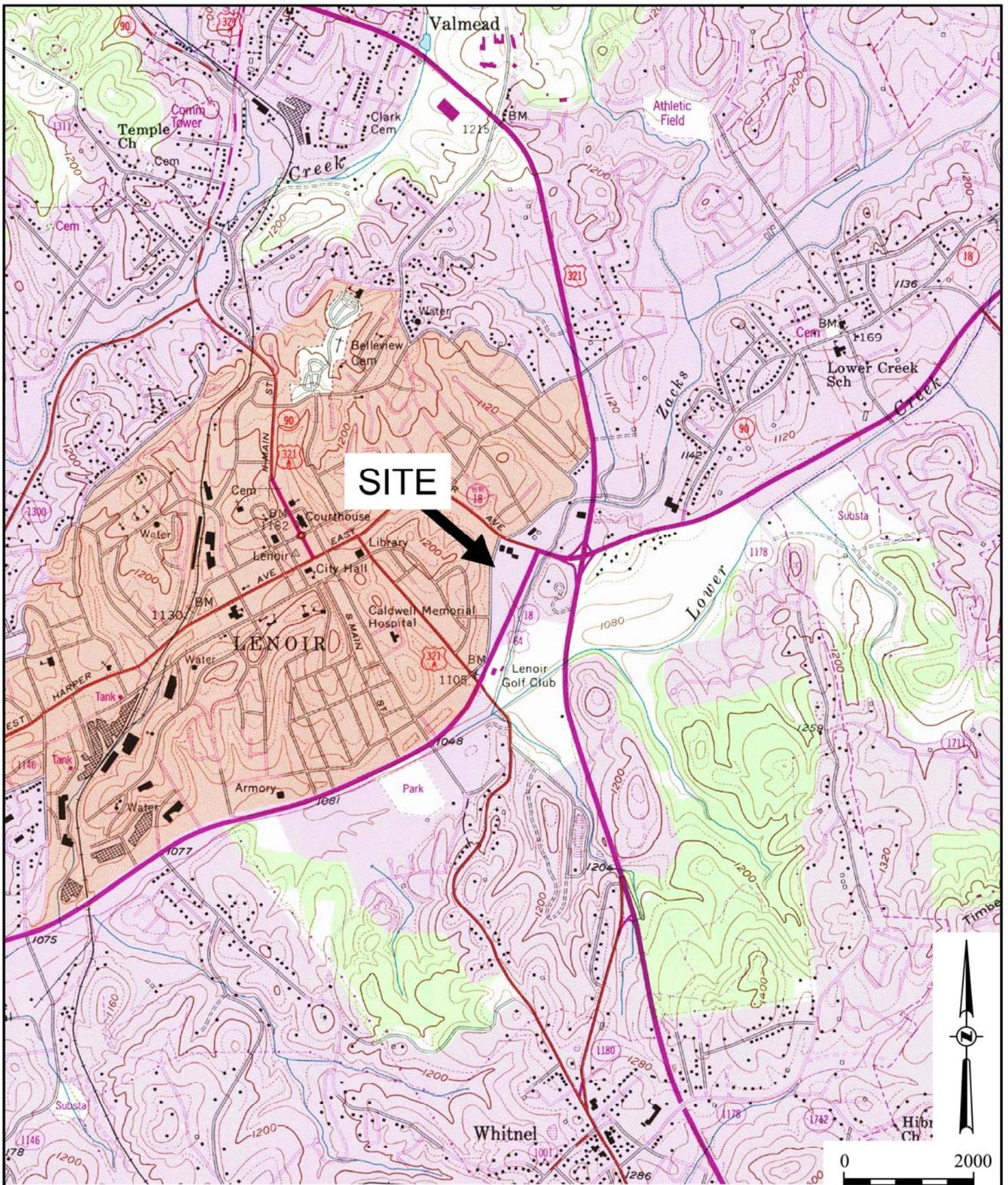
Table 6: Monitoring Well Construction Data**ADT 6****DSCA ID No.: DC140001**

Well ID	Date Installed (mm/dd/yy)	Number of Samples	Well Depth [feet]	Well Diameter [inch]	Screen Interval [feet]	Status (Active/Inactive)
MW	7/24/15	1	12	N/A	N/A	Inactive
MW-1	12/7/15	2	19.46	2	9.46 - 19.46	Active
MW-2	12/7/15	2	20.19	2	10.19 - 20.19	Active
MW-3	12/7/15	2	20.20	2	10.20 - 20.20	Active
MW-4	12/8/15	2	18.45	2	8.45 - 18.45	Active

Table 7: Groundwater Elevation Data**ADT 7****DSCA ID No.: DC140001**

Groundwater Sampling Point	Sampling Date (mm/dd/yy)	TOC Elevation [feet]	Depth to Water [feet btoc]	Groundwater Elevation [feet]	Depth to NAPL [feet bgs]	NAPL Thickness [feet]	Corrected* Groundwater Elevation [feet]
MW-1	12/9/15	1093.70	6.08	1087.62	NA	NA	NA
MW-2	12/9/15	1093.15	8.56	1084.59	NA	NA	NA
MW-3	12/9/15	1094.04	8.00	1086.04	NA	NA	NA
MW-4	12/9/15	1092.53	3.40	1089.13	NA	NA	NA
MW-1	3/9/16	1093.70	6.07	1087.63	NA	NA	NA
MW-2	3/9/16	1093.15	8.62	1084.53	NA	NA	NA
MW-3	3/9/16	1094.04	7.88	1086.16	NA	NA	NA
MW-4	3/9/16	1092.53	2.44	1090.09	NA	NA	NA

**ATTACHMENT 1
SITE LOCATION MAP**



Reference: 7.5 Minute USGS Topographic Map: Lenoir, North Carolina (1995)

APPROX. SCALE, ft.



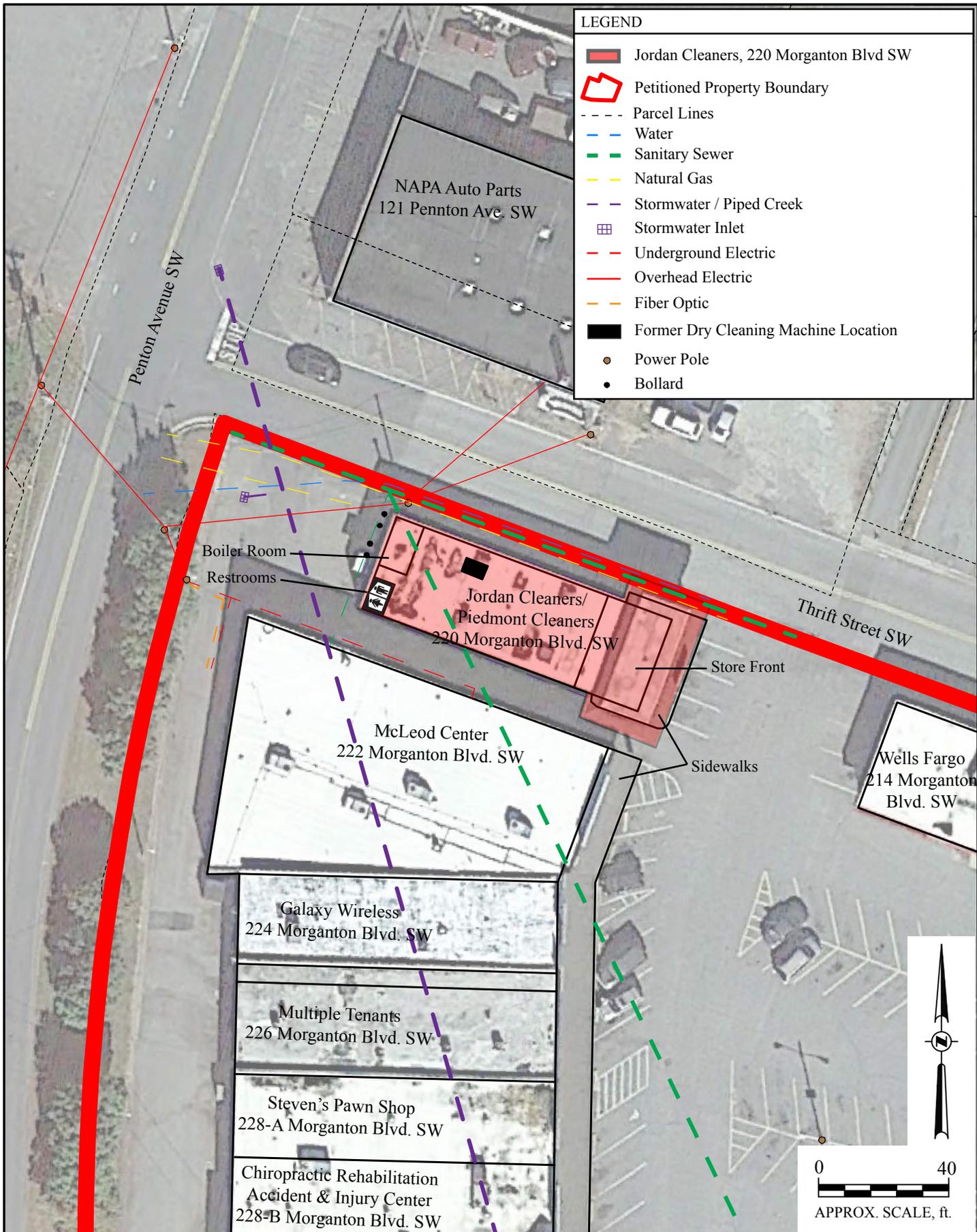
URS CORPORATION - NORTH CAROLINA
 SOUTH PARK TOWERS
 6000 FAIRVIEW ROAD, SUITE 200
 CHARLOTTE, NC 28210
 TEL: (704) 522-0330
 FAX: (704) 522-0063



Site Location Map
 Jordan Cleaners
 220 Morganton Boulevard SW
 Lenoir, NC
 DSCA Site DC140001

DRAWN BY: JTH - 10/16/15	CHECKED BY: RHM - 10/16/15	PROJECT NO.:
SHEET		60477865
ATT. 1		

**ATTACHMENT 5
FACILITY LAYOUT**



URS CORPORATION - NORTH CAROLINA
SOUTH PARK TOWERS
6000 FAIRVIEW ROAD, SUITE 200
CHARLOTTE, NC 28210
TEL: (704) 522-0330
FAX: (704) 522-0063



Facility Layout
Jordan Cleaners
220 Morganton Boulevard SW
Lenoir, NC
DSCA Site DC140001

DRAWN BY: JTH - 3/15/16	CHECKED BY: RHM - 3/15/16	PROJECT NO.:
		60477865

SHEET
ATT. 5

ATTACHMENT 9
GEOLOGIC CROSS-SECTIONS

Map orientation N 23.4 W

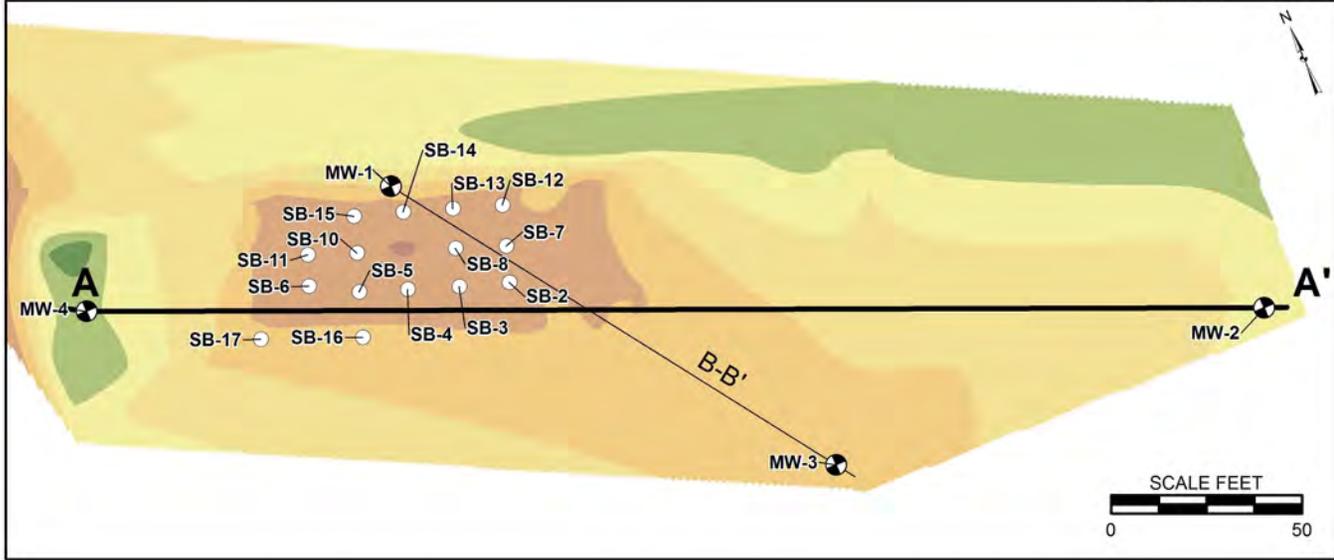
Legend

- Monitoring Well
- Soil Boring
- Transect

Elevation (ft-amsl)

- 1,092.26 - 1,092.68
- 1,092.69 - 1,093.10
- 1,093.11 - 1,093.52
- 1,093.53 - 1,093.94
- 1,093.95 - 1,094.36
- 1,094.37 - 1,094.78
- 1,094.79 - 1,095.20
- 1,095.21 - 1,095.62
- 1,095.63 - 1,096.03

NOTE:
ft-amsl feet above mean sea level



Cross Section A-A'
Jordan Cleaners
220 Morganton Boulevard SW
Lenoir, NC
DSCA Site ID: DC 140001

URS CORPORATION - NORTH CAROLINA
SOUTH-PARK TOWERS
6000 FAIRVIEW ROAD, SUITE 200
CHARLOTTE, NC 28110
TEL: (704) 522-0330
FAX: (704) 522-0063



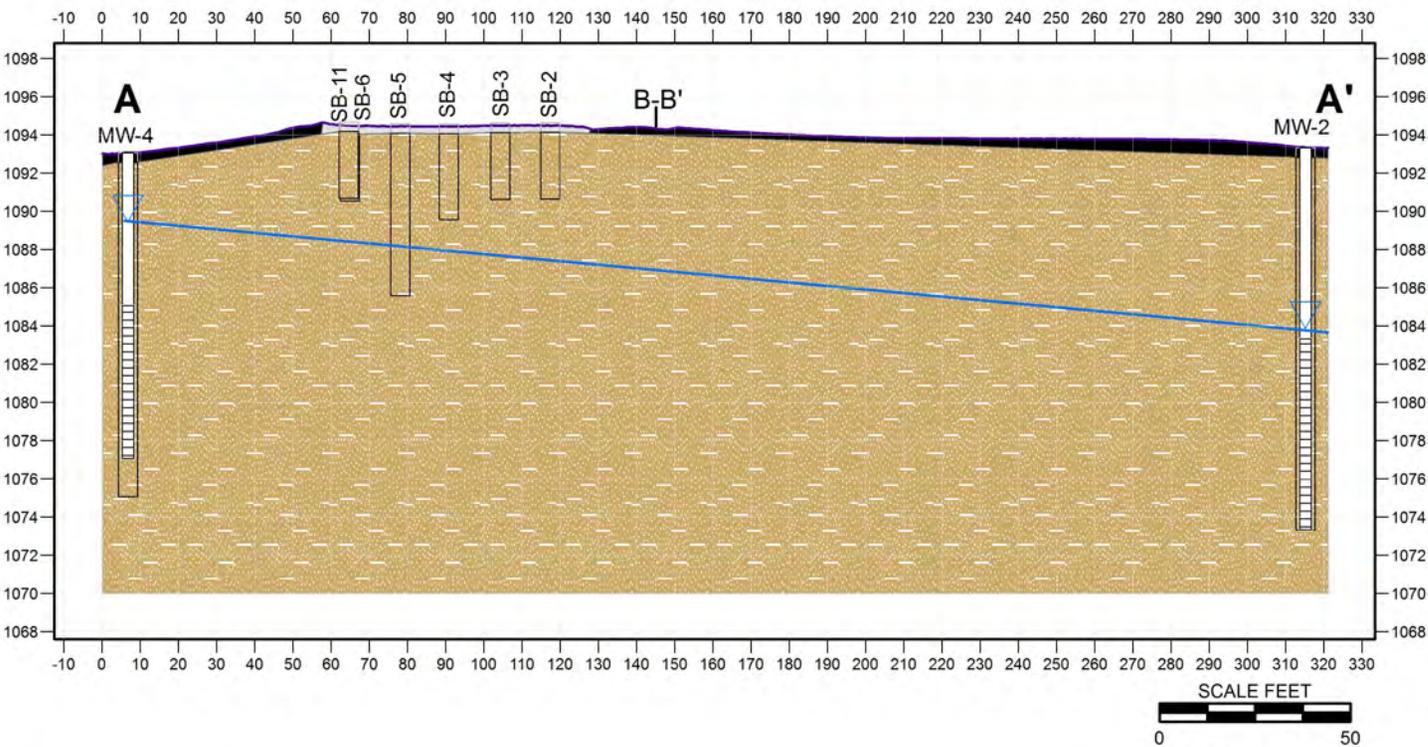
Groundwater Elevation
(3/9/2016)

Monitoring Well
*Well width not to scale

- Riser
- Screen

Material Description

- Black Asphalt
- Light Gray Concrete
- Brown Silty Sand



Vertical Exaggeration: 5X

DRAWN BY: RGM - 3/23/2016
CHECKED BY: JTH - 3/23/2016
PROJECT NO: 60477865

SHEET: ATT. 9-1

Legend

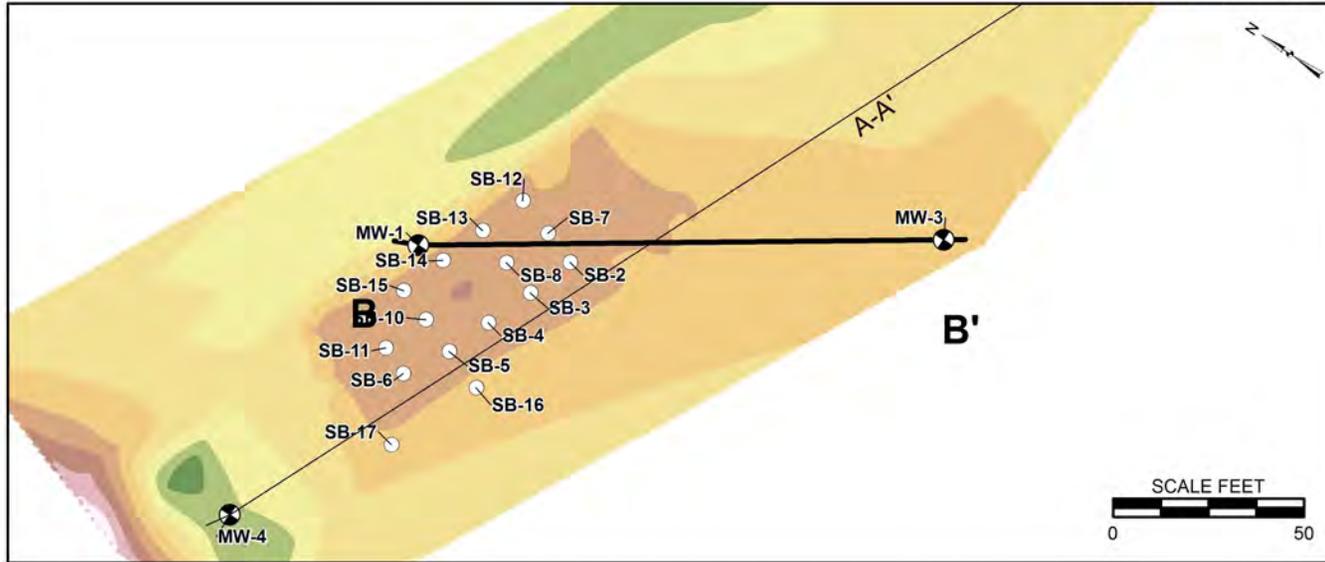
- ⊕ Monitoring Well
- Soil Boring
- Transect

Elevation (ft-amsl)

- 1,092.26 - 1,092.68
- 1,092.69 - 1,093.10
- 1,093.11 - 1,093.52
- 1,093.53 - 1,093.94
- 1,093.95 - 1,094.36
- 1,094.37 - 1,094.78
- 1,094.79 - 1,095.20
- 1,095.21 - 1,095.62
- 1,095.63 - 1,096.03

NOTE:
ft-amsl feet above mean sea level

Map orientation N 55.95 W



Groundwater Elevation (3/9/2016)

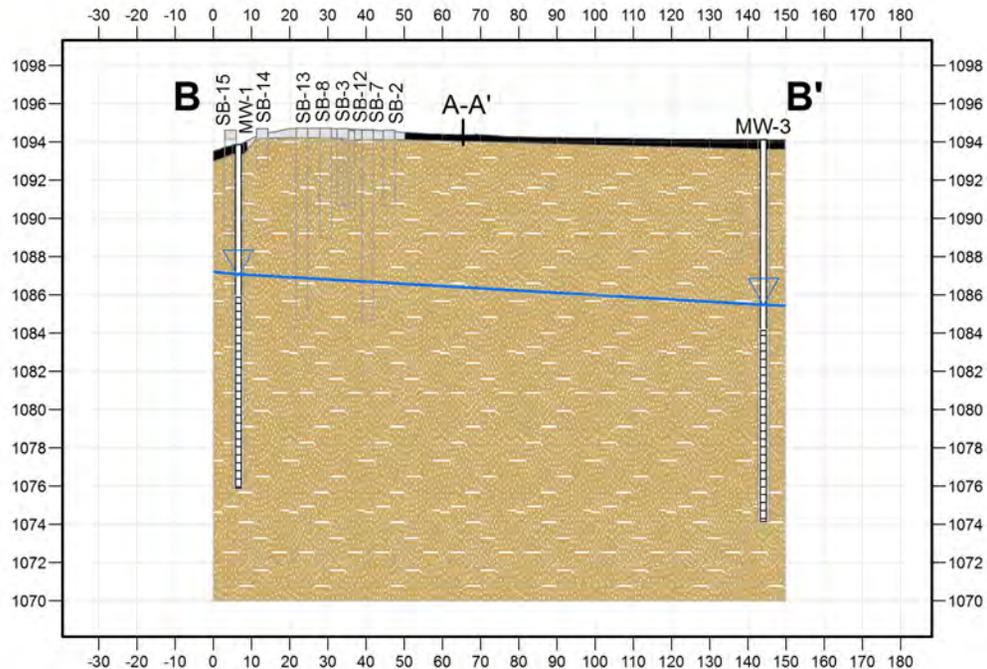
Monitoring Well

*Well width not to scale

- Riser
- Screen

Material Description

- Black Asphalt
- Light Gray Concrete
- Brown Silty Sand



Vertical Exaggeration: 5X

Cross Section B-B'
Jordan Cleaners
220 Morganton Boulevard SW
Lenoir, NC
DSCA Site ID: DC 140001

URS CORPORATION - NORTH CAROLINA
SOUTH PARK TOWERS
6000 FAIRVIEW ROAD, SUITE 200
CHARLOTTE, NC 28110
TEL: (704) 522-0330
FAX: (704) 522-0063



DRAWN BY: RGM - 3/23/2016
CHECKED BY: JTH - 3/23/2016
PROJECT NO: 60477865

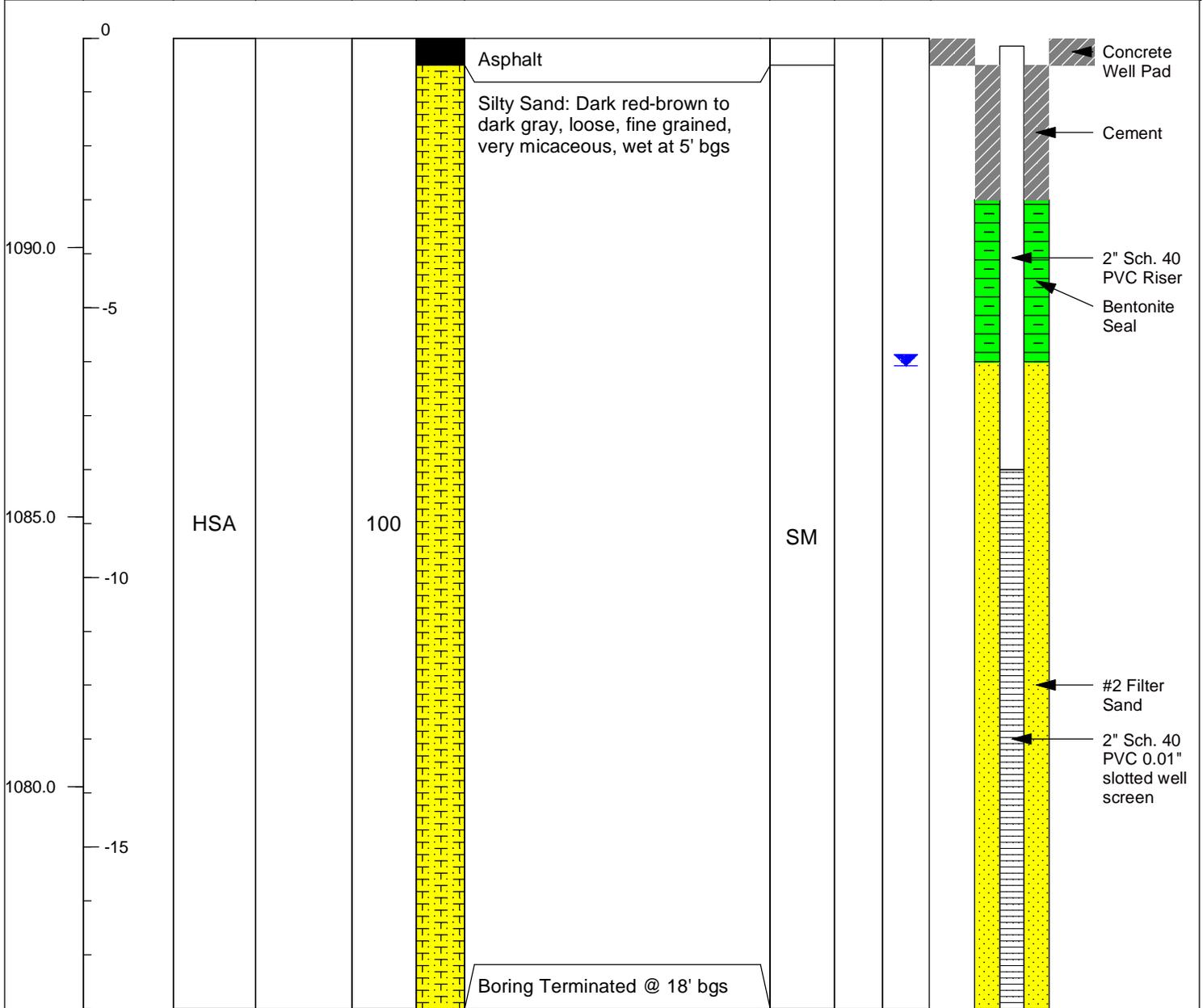
SHEET: ATT. 9-2

**ATTACHMENT 10
BORING LOGS**

URS LITHOLOGIC LOG / WELL CONSTRUCTION LOG

PROJECT NO: 60477865	BORING NO: MW-1	PROJECT NAME: Jordan Cleaners
DATE BEGAN: 12/7/15	DATE FINISHED: 12/7/15	FIELD ENGINEER: B. Hill
DRILLER: Kenny Sargent	NORTH: 1251121.393	EAST: 797036.303
TOP OF CASING ELEVATION: 1093.70	GWL DATE: 12/9/15	GWL DEPTH: 6.08' bgs
DRILLING METHOD: 4.25" ID HOLLOW STEM AUGER	DRILL EQUIP: Geoprobe 3230 DT	CHECKED BY: JTH
CONTRACTOR: Geologic Exploration		

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (FT.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	WELL CONSTRUCTION
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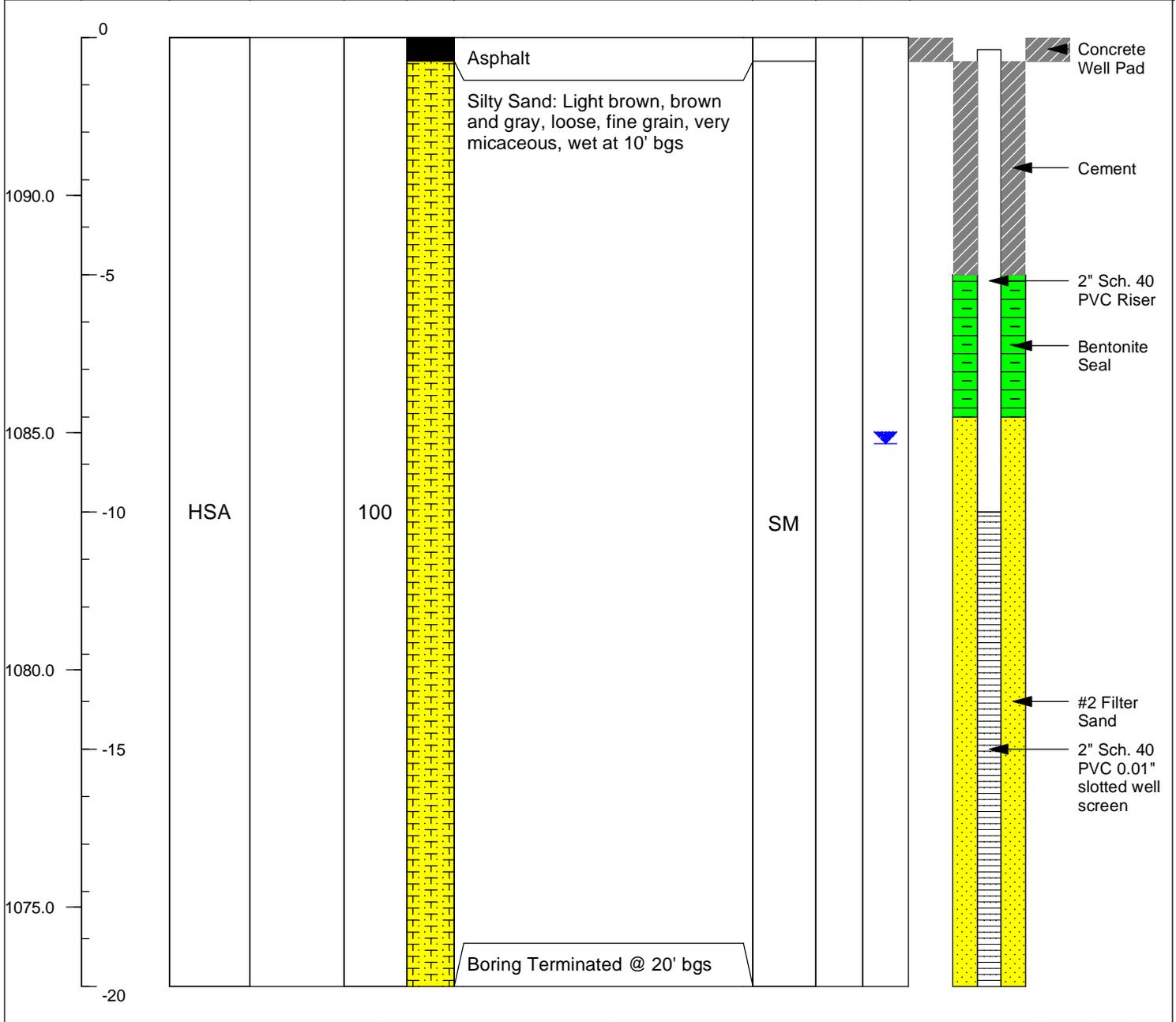
Well Installation Log MW-1
 Jordan Cleaners
 220 Morganton Boulevard SW
 Lenoir, NC
 DSCA Site ID DC140001

DRAWN BY: BWH	CHECKED BY: JTH	PROJECT NO: 60477865	
SHEET: ATT. 10			

URS LITHOLOGIC LOG / WELL CONSTRUCTION LOG

PROJECT NO: 60477865	BORING NO: MW-2	PROJECT NAME: Jordan Cleaners
DATE BEGAN: 12/7/15	DATE FINISHED: 12/7/15	FIELD ENGINEER: B. Hill
DRILLER: Kenny Sargent	NORTH: 1251318.802	EAST: 796916.396
TOP OF CASING ELEVATION: 1093.15	GWL DATE: 12/9/15	GWL DEPTH: 8.56' bgs
DRILLING METHOD: 4.25" ID HOLLOW STEM AUGER	DRILL EQUIP: Geoprobe 3230 DT	CHECKED BY: JTH
CONTRACTOR: Geologic Exploration		

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (FT.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	WELL CONSTRUCTION
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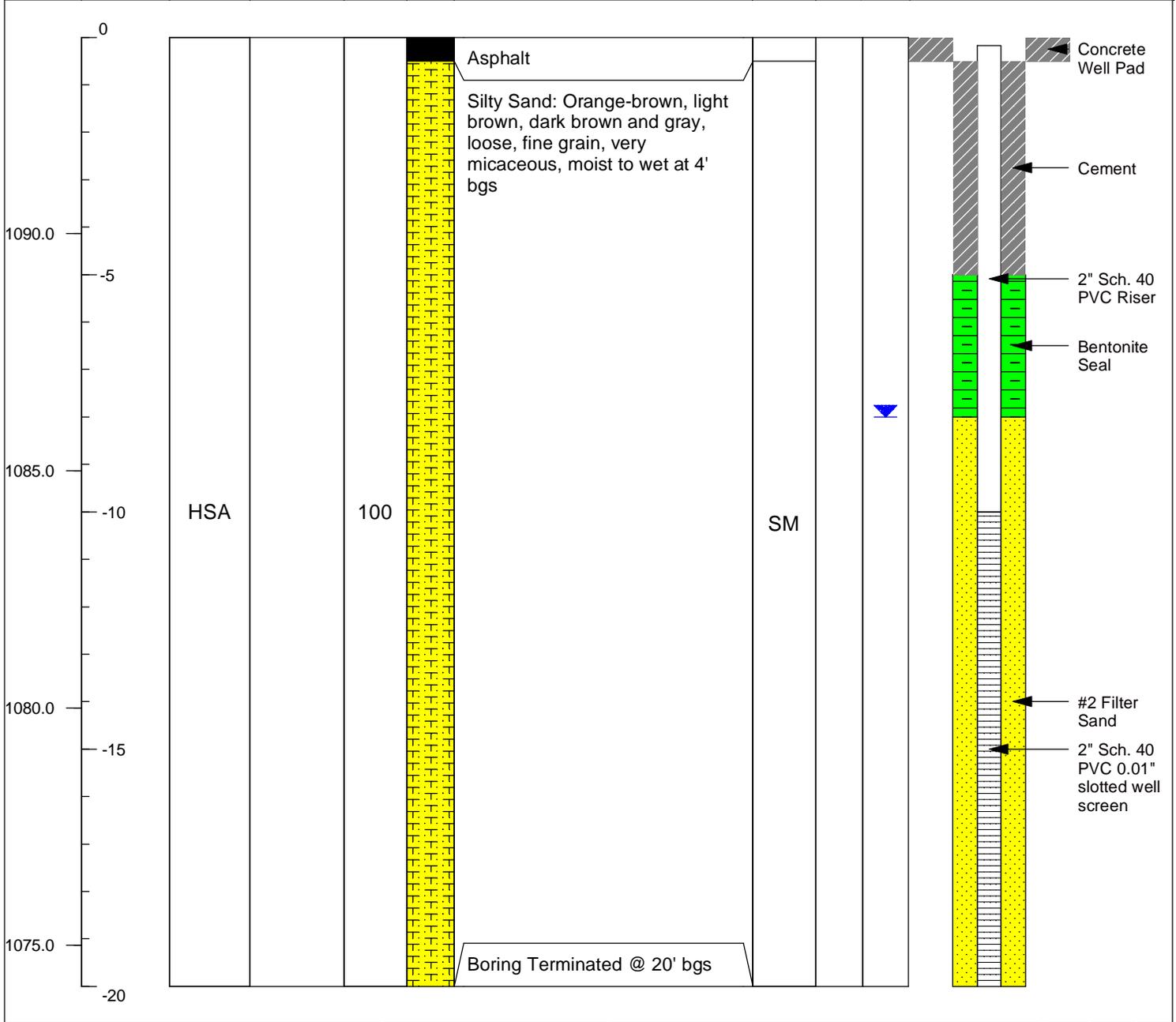
Well Installation Log MW-2
 Jordan Cleaners
 220 Morganton Boulevard SW
 Lenoir, NC
 DSCA Site ID DC140001

DRAWN BY: BWH	CHECKED BY: JTH	PROJECT NO: 60477865
SHEET: ATT.10		

URS LITHOLOGIC LOG / WELL CONSTRUCTION LOG

PROJECT NO: 60477865	BORING NO: MW-3	PROJECT NAME: Jordan Cleaners
DATE BEGAN: 12/7/15	DATE FINISHED: 12/7/15	FIELD ENGINEER: B. Hill
DRILLER: Kenny Sargent	NORTH: 1251199.573	EAST: 796923.116
TOP OF CASING ELEVATION: 1094.04	GWL DATE: 12/9/15	GWL DEPTH: 8.00' bgs
DRILLING METHOD: 4.25" ID HOLLOW STEM AUGER	DRILL EQUIP: Geoprobe 3230 DT	CHECKED BY: JTH
CONTRACTOR: Geologic Exploration		

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (FT.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	WELL CONSTRUCTION
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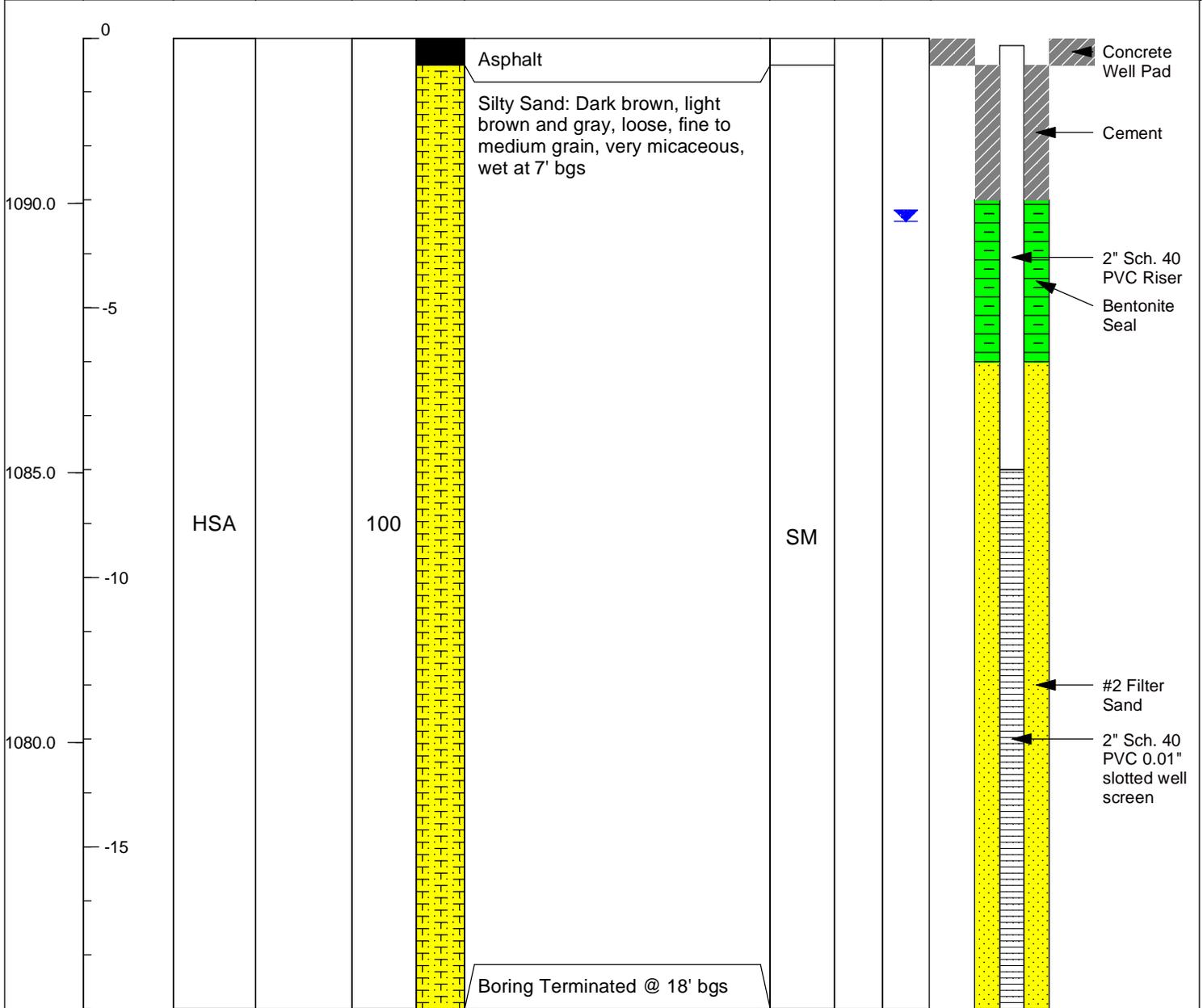
Well Installation Log MW-3
 Jordan Cleaners
 220 Morganton Boulevard SW
 Lenoir, NC
 DSCA Site ID DC140001

DRAWN BY: BWH	CHECKED BY: JTH	PROJECT NO: 60477865
SHEET: ATT. 10		

URS LITHOLOGIC LOG / WELL CONSTRUCTION LOG

PROJECT NO: 60477865	BORING NO: MW-4	PROJECT NAME: Jordan Cleaners
DATE BEGAN: 12/8/15	DATE FINISHED: 12/8/15	FIELD ENGINEER: B. Hill
DRILLER: Kenny Sargent	NORTH: 1251035.266	EAST: 797037.804
TOP OF CASING ELEVATION: 1092.53	GWL DATE: 12/9/15	GWL DEPTH: 3.40' bgs
DRILLING METHOD: 4.25" ID HOLLOW STEM AUGER	DRILL EQUIP: Geoprobe 3230 DT	CHECKED BY: JTH
CONTRACTOR: Geologic Exploration		

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (FT.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	WELL CONSTRUCTION
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Well Installation Log MW-4
 Jordan Cleaners
 220 Morganton Boulevard SW
 Lenoir, NC
 DSCA Site ID DC140001

DRAWN BY: BWH	CHECKED BY: JTH	PROJECT NO: 60477865
SHEET: ATT. 10		

URS SOIL BORING LOG

PROJECT NO: 60477865

BORING NO: SB-1

PROJECT NAME: Jordan Cleaners

DATE BEGAN: 12/7/15

DATE FINISHED: 12/7/15

FIELD ENGINEER: B. Hill

DRILLER: Kenny Sargent

NORTH: 1251121.393

EAST: 797036.303

GROUND SURFACE ELEVATION: 1093.88

GWL DATE/TIME: NA

GWL DEPTH: NA

DRILLING METHOD: Direct Push Technology

DRILL EQUIP: Geoprobe 3230 DT

CHECKED BY: JTH

CONTRACTOR: Geologic Exploration

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	FID (ppm)	FID Graph <i>0 to 1500 ppm</i>	Laboratory Analytical Results
0						Asphalt				
						Silty Sand: Dark red-brown to dark gray, loose, fine grained, very micaceous, wet at 5' bgs		3.6		
								3.7		
1090.0										
	-5	DPT	SB-1 (4'-6')	100			SM	3.7		<i>Acetone - 0.053J mg/kg</i> <i>Methylene Chloride - 0.016J mg/kg</i> <i>Vinyl Chloride - 0.0032 J mg/kg</i>
1085.0										
-10						Boring Terminated @ 10' bgs				



Soil Boring Log SB-1
 Jordan Cleaners
 220 Morganton Boulevard SW
 Lenoir, NC
 DSCA Site ID DC140001

DRAWN BY:	BWH	CHECKED BY:	JTH	PROJECT NO:	60477865
SHEET:		ATT. 10			

URS SOIL BORING LOG

PROJECT NO: 60477865	BORING NO: SB-2	PROJECT NAME: Jordan Cleaners
DATE BEGAN: 12/7/15	DATE FINISHED: 12/7/15	FIELD ENGINEER: B. Hill
DRILLER: Kenny Sargent	NORTH: 1251139.8	EAST: 797001.022
GROUND SURFACE ELEVATION: 1094.64	GWL DATE/TIME: NA	GWL DEPTH: NA
DRILLING METHOD: Direct Push Technology	DRILL EQUIP: Geoprobe 3230 DT	CHECKED BY: JTH
CONTRACTOR: Geologic Exploration		

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	FID (ppm)	FID Graph <i>0 to 1500 ppm</i>	Laboratory Analytical Results
0						Concrete				
						Silty Sand: Red-brown to dark brown, dry, loose, fine grained, micaceous		6.6		
			SB-2 (2'-4')	80				6.5		<i>Not Analyzed</i>
1090.0	-5	DPT				No recovery	SM			
				0						
1085.0	-10					Boring Terminated @ 10' bgs				



Soil Boring Log SB-2
 Jordan Cleaners
 220 Morganton Boulevard SW
 Lenoir, NC
 DSCA Site ID DC140001

DRAWN BY: BWH	CHECKED BY: JTH	PROJECT NO: 60477865
SHEET: ATT. 10		

URS SOIL BORING LOG

PROJECT NO: 60477865	BORING NO: SB-3**	PROJECT NAME: Jordan Cleaners
DATE BEGAN: 12/7/15	DATE FINISHED: 12/7/15	FIELD ENGINEER: B. Hill
DRILLER: Kenny Sargent	NORTH: 1251127.361	EAST: 797005.173
GROUND SURFACE ELEVATION: 1094.61	GWL DATE/TIME: NA	GWL DEPTH: NA
DRILLING METHOD: Direct Push Technology	DRILL EQUIP: Geoprobe 3230 DT	CHECKED BY: JTH
CONTRACTOR: Geologic Exploration		

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	FID (ppm)	FID Graph <i>0 to 1500 ppm</i>	Laboratory Analytical Results
0						Concrete				
				0		No recovery				
1090.0	-5	DPT								
			SB-3 (6'-8')**	80		<p>Silty Sand: Dark brown to brown, moist, loose, fine grain, micaceous</p> <p>Due to poor recovery between 0' - 5' bgs, as well as common field data errors, two asterisks (**) have been used to indicate that the soil lithology and sample results are more likely representative of soil that should have been recovered between 0' and 4' feet bgs and not the lithological / sample intervals identified as being recovered as part of DPT advancement from 5' to 10' bgs.</p>	SM	4.8		<i>Not Analyzed</i>
1085.0	-10							4.7		
						Boring Terminated @ 10' bgs				



Soil Boring Log SB-3**
 Jordan Cleaners
 220 Morganton Boulevard SW
 Lenoir, NC
 DSCA Site ID DC140001

DRAWN BY: BWH	CHECKED BY: JTH	PROJECT NO: 60477865
SHEET: ATT. 10		

URS SOIL BORING LOG

PROJECT NO: 60477865

BORING NO: SB-4

PROJECT NAME: Jordan Cleaners

DATE BEGAN: 12/7/15

DATE FINISHED: 12/7/15

FIELD ENGINEER: B. Hill

DRILLER: Kenny Sargent

NORTH: 1251114.707

EAST: 797009.906

GROUND SURFACE ELEVATION: 1094.56

GWL DATE/TIME: NA

GWL DEPTH: NA

DRILLING METHOD: Direct Push Technology

DRILL EQUIP: Geoprobe 3230 DT

CHECKED BY: JTH

CONTRACTOR: Geologic Exploration

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	FID (ppm)	FID Graph 0 to 1500 ppm	Laboratory Analytical Results
0					100	Concrete				<i>PCE - 0.013 mg/kg Acetone - 0.041 J mg/kg Methylene Chloride - 0.026J mg/kg</i>
			SB-4 (0'-2')		100	Silty Sand: Red-brown to dark brown, dry, loose, fine grain, micaceous	SM	5.2		
					0	No Recovery		5.0		
1090.0	-5	DPT								
1085.0	-10					Boring Terminated @ 10' bgs				



Soil Boring Log SB-4
Jordan Cleaners
220 Morganton Boulevard SW
Lenoir, NC
DSCA Site ID DC140001

DRAWN BY: BWH	CHECKED BY: JTH	PROJECT NO: 60477865
SHEET: ATT. 10		

URS SOIL BORING LOG

PROJECT NO: 60477865

BORING NO: SB-6**

PROJECT NAME: Jordan Cleaners

DATE BEGAN: 12/8/15

DATE FINISHED: 12/8/15

FIELD ENGINEER: B. Hill

DRILLER: Kenny Sargent

NORTH: 1251091.194

EAST: 797020.853

GROUND SURFACE ELEVATION: 1094.53

GWL DATE/TIME: NA

GWL DEPTH: NA

DRILLING METHOD: Direct Push Technology

DRILL EQUIP: Geoprobe 3230 DT

CHECKED BY: JTH

CONTRACTOR: Geologic Exploration

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	FID (ppm)	FID Graph 0 to 1500 ppm	Laboratory Analytical Results
0						Concrete				
						No recovery				
				0						
1090.0		DPT								
	-5									
			SB-6 (6'-8')**			Silty Sand: Dark brown to gray, wet, loose, fine grained, micaceous Due to poor recovery between 0' - 5' bgs, as well as common field data errors, two asterisks (**) have been used to indicate that the soil lithology and sample results are more likely representative of soil that should have been recovered between 0' and 4' feet bgs and not the lithological / sample intervals identified as being recovered as part of DPT advancement from 5' to 10' bgs.	SM			Acetone - 0.075J mg/kg MEK - 0.011J mg/kg Chlorobenzene - 0.0023 J mg/kg 1,4-DCB - 0.0066 mg/kg cis-1,2-DCE - 41.4 mg/kg trans-1,2-DCE - 0.55 mg/kg Isopropylbenzene - 0.0033 J mg/kg Methyl Chloride - 0.016J mg/kg Toluene - 0.0089 mg/kg 1,2,4-TMB - 0.0087 mg/kg 1,3,5-TMB - 0.0045 J mg/kg Vinyl Chloride - 6.1 J mg/kg 0-Xylene - 0.0035 J mg/kg
				80				4.1		
1085.0										
	-10									
						Boring Terminated @ 10' bgs				



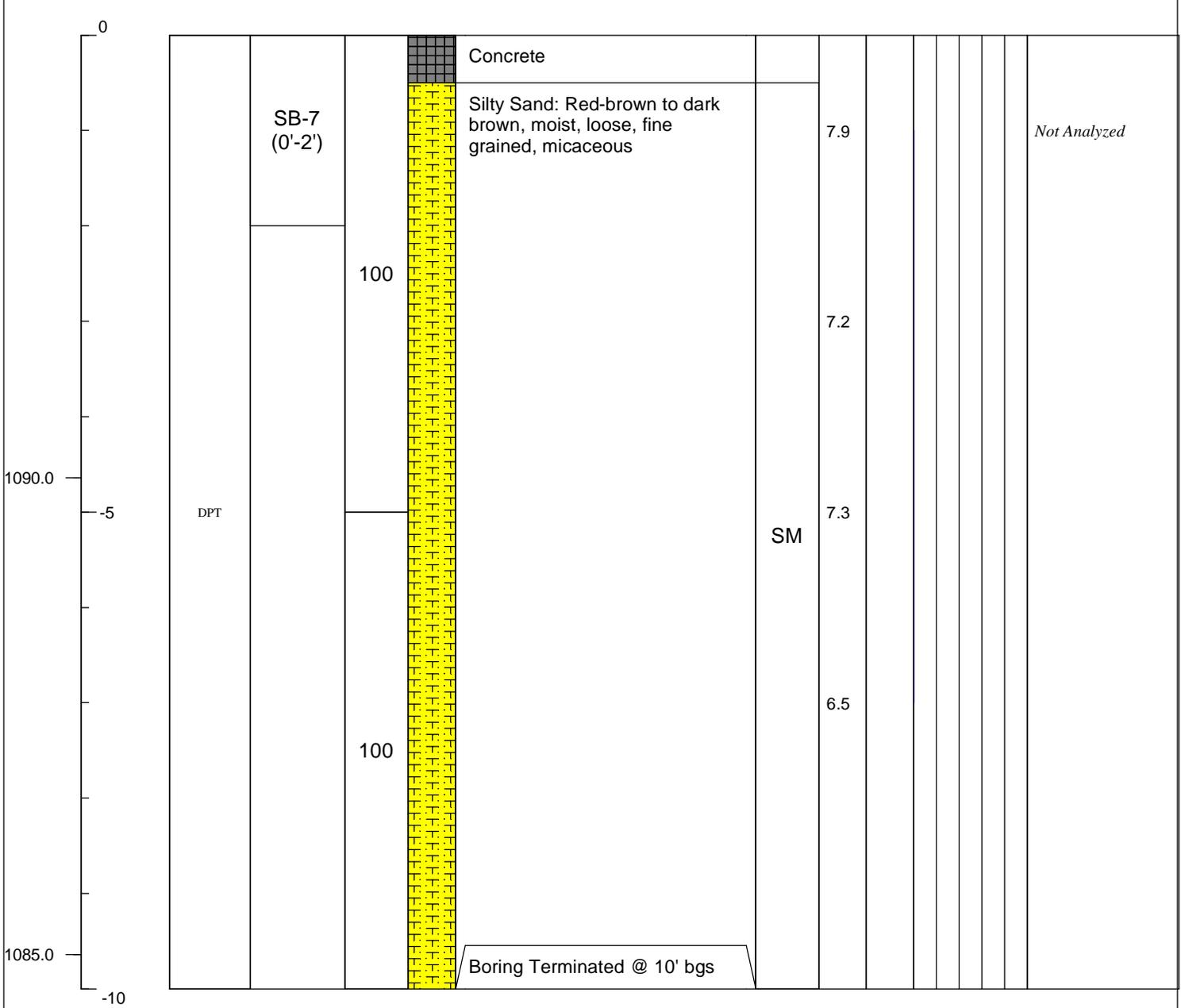
Soil Boring Log SB-6**
 Jordan Cleaners
 220 Morganton Boulevard SW
 Lenoir, NC
 DSCA Site ID DC140001

DRAWN BY: BWH	CHECKED BY: JTH	PROJECT NO: 60477865
SHEET: ATT. 10		

URS SOIL BORING LOG

PROJECT NO: 60477865	BORING NO: SB-7	PROJECT NAME: Jordan Cleaners
DATE BEGAN: 12/7/15	DATE FINISHED: 12/7/15	FIELD ENGINEER: B. Hill
DRILLER: Kenny Sargent	NORTH: 1251142.87	EAST: 797010.012
GROUND SURFACE ELEVATION: 1094.64	GWL DATE/TIME: NA	GWL DEPTH: NA
DRILLING METHOD: Direct Push Technology	DRILL EQUIP: Geoprobe 3230 DT	CHECKED BY: JTH
CONTRACTOR: Geologic Exploration		

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	FID (ppm)	FID Graph <i>0 to 1500 ppm</i>	Laboratory Analytical Results
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Soil Boring Log SB-7
 Jordan Cleaners
 220 Morganton Boulevard SW
 Lenoir, NC
 DSCA Site ID DC140001

DRAWN BY: BWH	CHECKED BY: JTH	PROJECT NO: 60477865
SHEET: ATT. 10		

URS SOIL BORING LOG

PROJECT NO: 60477865

BORING NO: SB-8**

PROJECT NAME: Jordan Cleaners

DATE BEGAN: 12/7/15

DATE FINISHED: 12/7/15

FIELD ENGINEER: B. Hill

DRILLER: Kenny Sargent

NORTH: 1251130.407

EAST: 797014.744

GROUND SURFACE ELEVATION: 1094.73

GWL DATE/TIME: NA

GWL DEPTH: NA

DRILLING METHOD: Direct Push Technology

DRILL EQUIP: Geoprobe 3230 DT

CHECKED BY: JTH

CONTRACTOR: Geologic Exploration

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	FID (ppm)	FID Graph <i>0 to 1500 ppm</i>	Laboratory Analytical Results
0					0	Concrete				
					70	Silty Sand: Red-brown, moist, loose, fine grain, micaceous	SM	6.8		
					70	No recovery		6.9		
1090.0	-5	DPT			45	Silty Sand: Dark gray, moist, loose, fine grained, micaceous Due to poor recovery, as well as common field data errors, two asterisks (**) have been used to indicate that the soil lithology and sample results are more likely representative of soil that should have been recovered between 3.5' and 5.25' feet bgs and not the lithological / sample intervals identified as being recovered as part of DPT advancement from 5' to 10' bgs.	SM	7.2		<i>Acetone - 0.14 mg/kg MEK - 0.036 J mg/kg Methylene Chloride - 0.032 mg/kg</i>
			SB-8 (6'-8')**		45	No recovery		7.2		
1085.0	-10				10	Boring Terminated @ 10' bgs				



Soil Boring Log SB-8**
Jordan Cleaners
220 Morganton Boulevard SW
Lenoir, NC
DSCA Site ID DC140001

DRAWN BY: BWH	CHECKED BY: JTH	PROJECT NO: 60477865
SHEET: ATT. 10		

URS SOIL BORING LOG

PROJECT NO: 60477865	BORING NO: SB-9*	PROJECT NAME: Jordan Cleaners
DATE BEGAN: 12/7/15	DATE FINISHED: 12/7/15	FIELD ENGINEER: B. Hill
DRILLER: Kenny Sargent	NORTH: 1251117.926	EAST: 797019.008
GROUND SURFACE ELEVATION: 1094.81	GWL DATE/TIME: NA	GWL DEPTH: NA
DRILLING METHOD: Direct Push Technology	DRILL EQUIP: Geoprobe 3230 DT	CHECKED BY: JTH
CONTRACTOR: Geologic Exploration		

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	FID (ppm)	FID Graph <i>0 to 1500 ppm</i>	Laboratory Analytical Results
0						Concrete				<i>Acetone - 0.022 J mg/kg Methylene Chloride - 0.015 J mg/kg PCE - 0.057 mg/kg</i>
						Silty Sand: Red-brown, loose, moist, fine grained, micaceous		8.2		
				100			SM	9.1		
1090.0	-5	DPT	SB-9 (4'-6')			No Recovery		9.3		
						Silty Sand: Dark brown, loose, moist, fine grained, micaceous Due to common field recording errors, an asterisk (*) has been used to indicate that the lithology is more likely representative of the soil interval between 5' and 9' feet bgs, and not the soil interval identified.	SM	9.0		
1085.0	-10					Boring Terminated @ 10' bgs				



Soil Boring Log SB-9*
Jordan Cleaners
220 Morganton Boulevard SW
Lenoir, NC
DSCA Site ID DC140001

DRAWN BY: BWH	CHECKED BY: JTH	PROJECT NO: 60477865
SHEET: ATT. 10		

URS SOIL BORING LOG

PROJECT NO: 60477865

BORING NO: SB-10*

PROJECT NAME: Jordan Cleaners

DATE BEGAN: 12/8/15

DATE FINISHED: 12/8/15

FIELD ENGINEER: B. Hill

DRILLER: Kenny Sargent

NORTH: 797023.894

EAST: 797023.894

GROUND SURFACE ELEVATION: 1094.79

GWL DATE/TIME: NA

GWL DEPTH: NA

DRILLING METHOD: Direct Push Technology

DRILL EQUIP: Geoprobe 3230 DT

CHECKED BY: JTH

CONTRACTOR: Geologic Exploration

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	FID (ppm)	FID Graph 0 to 1500 ppm	Laboratory Analytical Results
0						Concrete				
						Silty Sand: Red-brown, loose, moist, fine grained, micaceous		15.5		
			SB-10 (2'-4')	100			SM	23.1		Acetone - 0.016 J mg/kg Methyl Chloride - 0.0017 J mg/kg PCE - 0.86 mg/kg
1090.0	-5	DPT				No Recovery		6.5		
						Silty Sand: Dark brown, loose, wet, fine grained, micaceous				
				80		Due to common field recording errors, an asterisk (*) has been used to indicate that the lithology is more likely representative of the soil interval between 5' and 9' feet bgs, and not the soil interval identified.	SM			
1085.0	-10					Boring Terminated @ 10' bgs				



Soil Boring Log SB-10*
 Jordan Cleaners
 220 Morganton Boulevard SW
 Lenoir, NC
 DSCA Site ID DC140001

DRAWN BY: BWH	CHECKED BY: JTH	PROJECT NO: 60477865
SHEET: ATT. 10		

URS SOIL BORING LOG

PROJECT NO: 60477865

BORING NO: SB-11**

PROJECT NAME: Jordan Cleaners

DATE BEGAN: 12/8/15

DATE FINISHED: 12/8/15

FIELD ENGINEER: B. Hill

DRILLER: Kenny Sargent

NORTH: 1251094.172

EAST: 797028.487

GROUND SURFACE ELEVATION: 1094.67

GWL DATE/TIME: NA

GWL DEPTH: NA

DRILLING METHOD: Direct Push Technology

DRILL EQUIP: Geoprobe 3230 DT

CHECKED BY: JTH

CONTRACTOR: Geologic Exploration

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	FID (ppm)	FID Graph <i>0 to 1500 ppm</i>	Laboratory Analytical Results
0					0	Concrete				
						No Recovery				
1090.0	-5	DPT								
			SB-11 (6'-8')**	80		Silty Sand: Dark red-brown, loose, wet, fine grained, micaceous Due to poor recovery between 0' - 5' bgs, as well as common field data errors, two asterisks (**) have been used to indicate that the soil lithology and sample results are more likely representative of soil that should have been recovered between 0' and 4' feet bgs and not the lithological / sample intervals identified as being recovered as part of DPT advancement from 5' to 10' bgs.	SM	17.4		<i>Acetone - 0.06 J mg/kg</i> <i>MEK - 0.029 J mg/kg</i> <i>Methylene Chloride - 0.017 J mg/kg</i> <i>PCE - 0.53 mg/kg</i> <i>TCE - 0.0069 J mg/kg</i>
1085.0	-10					Boring Terminated @ 10' bgs				



Soil Boring Log SB-11**
 Jordan Cleaners
 220 Morganton Boulevard SW
 Lenoir, NC
 DSCA Site ID DC140001

DRAWN BY: BWH	CHECKED BY: JTH	PROJECT NO: 60477865
SHEET: ATT. 10		

URS SOIL BORING LOG

PROJECT NO: 60477865

BORING NO: SB-12

PROJECT NAME: Jordan Cleaners

DATE BEGAN: 12/7/15

DATE FINISHED: 12/7/15

FIELD ENGINEER: B. Hill

DRILLER: Kenny Sargent

NORTH: 1251146.196

EAST: 797020.219

GROUND SURFACE ELEVATION: 1094.70

GWL DATE/TIME: NA

GWL DEPTH: NA

DRILLING METHOD: Direct Push Technology

DRILL EQUIP: Geoprobe 3230 DT

CHECKED BY: JTH

CONTRACTOR: Geologic Exploration

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	FID (ppm)	FID Graph <i>0 to 1500 ppm</i>	Laboratory Analytical Results
0						Concrete				
						Silty Sand: Red-brown, moist, loose, fine grained, micaceous		5.9		
			SB-12 (2'-4')	80			SM			<i>Acetone - 0.044 J mg/kg Methylene Chloride - 0.030 mg/kg Vinyl Chloride - 0.0024 J mg/kg</i>
						No recovery		6.1		
1090.0	-5	DPT								
					0					
1085.0	-10					Boring Terminated @ 10' bgs				



Soil Boring Log SB-12
Jordan Cleaners
220 Morganton Boulevard SW
Lenoir, NC
DSCA Site ID DC140001

DRAWN BY: BWH	CHECKED BY: JTH	PROJECT NO: 60477865
SHEET: ATT. 10		

URS SOIL BORING LOG

PROJECT NO: 60477865	BORING NO: SB-13	PROJECT NAME: Jordan Cleaners
DATE BEGAN: 12/7/15	DATE FINISHED: 12/7/15	FIELD ENGINEER: B. Hill
DRILLER: Kenny Sargent	NORTH: 1251133.840	EAST: 797024.585
GROUND SURFACE ELEVATION: 1094.73	GWL DATE/TIME: NA	GWL DEPTH: NA
DRILLING METHOD: Direct Push Technology	DRILL EQUIP: Geoprobe 3230 DT	CHECKED BY: JTH
CONTRACTOR: Geologic Exploration		

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	FID (ppm)	FID Graph <i>0 to 1500 ppm</i>	Laboratory Analytical Results
0						Concrete				
						Silty Sand: Red-brown to gray, loose, fine grained, micaceous, wet at 8' bgs		6.9		
				100				6.3		
1090.0	-5	DPT					SM	6.4		
			SB-13 (6'-8')					7.1		<i>Acetone - 0.056 J mg/kg</i> <i>Methylene Chloride - 0.017 J mg/kg</i> <i>PCE - 0.0026 J mg/kg</i>
1085.0	-10			100		Boring Terminated @ 10' bgs				



Soil Boring Log SB-13
 Jordan Cleaners
 220 Morganton Boulevard SW
 Lenoir, NC
 DSCA Site ID DC140001

DRAWN BY: BWH	CHECKED BY: JTH	PROJECT NO: 60477865
SHEET: ATT. 10		

URS SOIL BORING LOG

PROJECT NO: 60477865	BORING NO: SB-14**	PROJECT NAME: Jordan Cleaners
DATE BEGAN: 12/7/15	DATE FINISHED: 12/7/15	FIELD ENGINEER: B. Hill
DRILLER: Kenny Sargent	NORTH: 1251121.571	EAST: 797028.855
GROUND SURFACE ELEVATION: 1094.71	GWL DATE/TIME: NA	GWL DEPTH: NA
DRILLING METHOD: Direct Push Technology	DRILL EQUIP: Geoprobe 3230 DT	CHECKED BY: JTH
CONTRACTOR: Geologic Exploration		

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	FID (ppm)	FID Graph <i>0 to 1500 ppm</i>	Laboratory Analytical Results
0					Concrete					
					No Recovery					
					Silty Sand: Red-brown, moist, loose, fine grain, micaceous					
			SB-14 (2'-4')**	40	Due to poor recovery between 0' - 5' bgs, as well as common field data errors, two asterisks (**) have been used to indicate that the soil lithology and sample results are more likely representative of soil that should have been recovered between 0' and 2' feet bgs and not the lithological / sample intervals identified.	SM	8.6			<i>Not Analyzed</i>
					No Recovery					
1090.0	-5	DPT			0					
1085.0	-10				Boring Terminated @ 10' bgs					



Soil Boring Log SB-14**
 Jordan Cleaners
 220 Morganton Boulevard SW
 Lenoir, NC
 DSCA Site ID DC140001

DRAWN BY: BWH	CHECKED BY: JTH	PROJECT NO: 60477865
SHEET: ATT. 10		

URS SOIL BORING LOG

PROJECT NO: 60477865

BORING NO: SB-15**

PROJECT NAME: Jordan Cleaners

DATE BEGAN: 12/8/15

DATE FINISHED: 12/8/15

FIELD ENGINEER: B. Hill

DRILLER: Kenny Sargent

NORTH: 1251109.307

EAST: 797032.973

GROUND SURFACE ELEVATION: 1094.62

GWL DATE/TIME: NA

GWL DEPTH: NA

DRILLING METHOD: Direct Push Technology

DRILL EQUIP: Geoprobe 3230 DT

CHECKED BY: JTH

CONTRACTOR: Geologic Exploration

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	FID (ppm)	FID Graph <i>0 to 1500 ppm</i>	Laboratory Analytical Results
0						Concrete				
				0		No Recovery				
1090.0	-5	DPT	SB-15 (4'-6')**			Silty Sand: Red-brown to gray, moist, loose, fine grained, micaceous Due to poor recovery between 0' - 5' bgs, as well as common field data errors, two asterisks (**) have been used to indicate that the soil lithology and sample results are more likely representative of soil that should have been recovered between 0' and 5' feet bgs and not the lithological / sample intervals identified as being recovered as part of DPT advancement from 5' to 10' bgs.	SM	11.2		<i>Acetone - 0.015 J mg/kg</i> <i>Methylene Chloride - 0.011 J mg/kg</i> <i>PCE - 0.23 mg/kg</i>
1085.0	-10			100		Boring Terminated @ 10' bgs		6.5		



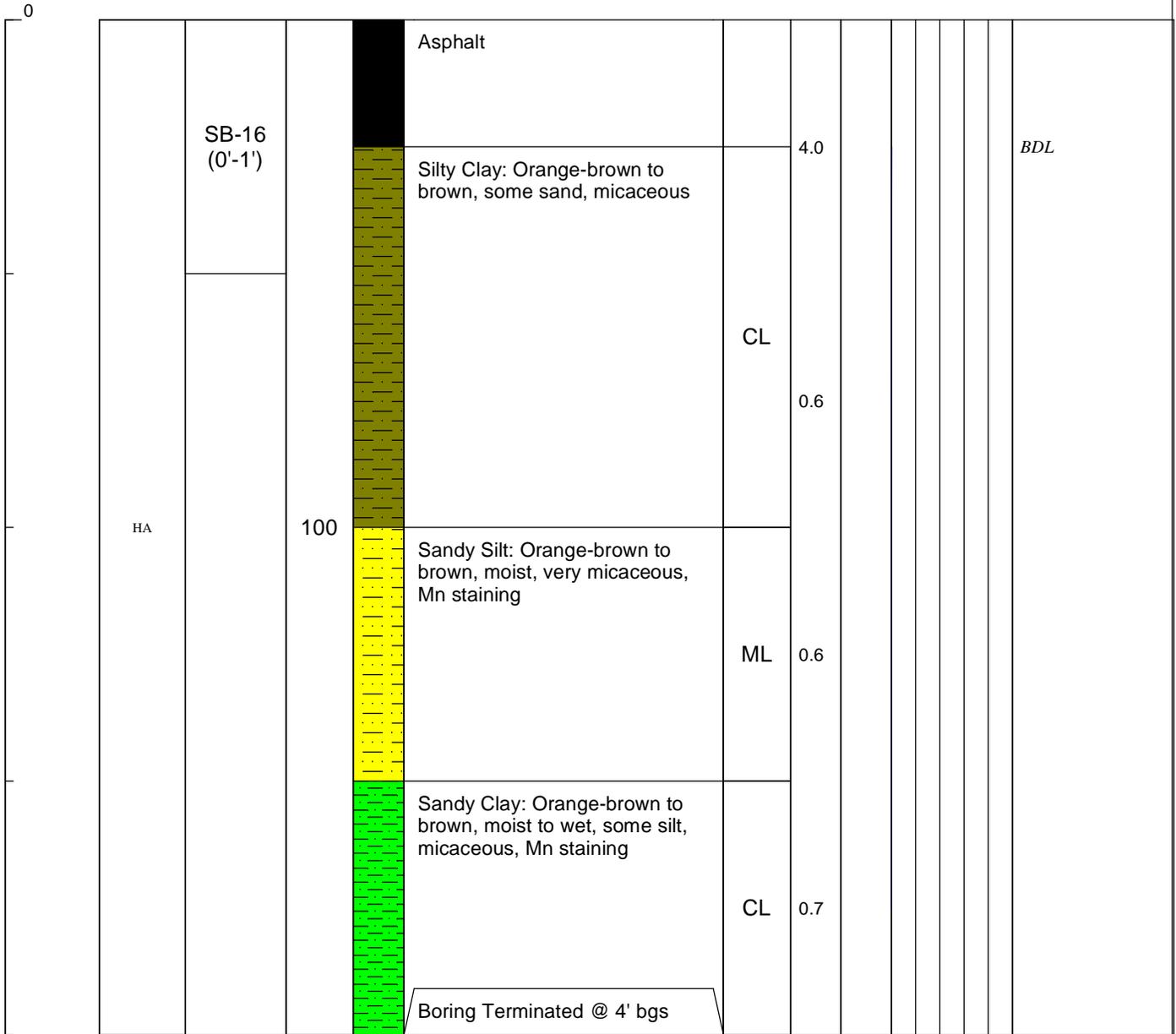
Soil Boring Log SB-15**
 Jordan Cleaners
 220 Morganton Boulevard SW
 Lenoir, NC
 DSCA Site ID DC140001

DRAWN BY: BWH	CHECKED BY: JTH	PROJECT NO: 60477865
SHEET: ATT. 10		

URS SOIL BORING LOG

PROJECT NO: 60477865	BORING NO: SB-16	PROJECT NAME: Jordan Cleaners
DATE BEGAN: 3/9/16	DATE FINISHED: 3/9/16	FIELD ENGINEER: Jeff Hvozdk
DRILLER: Jeffrey T. Hvozdk	NORTH: 1251098.809	EAST: 797003.020
GROUND SURFACE ELEVATION: 1094.27	GWL DATE/TIME: NA	GWL DEPTH: NA
DRILLING METHOD: Hand Auger	DRILL EQUIP: Hand Auger	CHECKED BY: RHM
CONTRACTOR:		

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	FID (ppm)	FID Graph <i>0 to 1500 ppm</i>	Laboratory Analytical Results
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Soil Boring Log SB-16
 Jordan Cleaners
 220 Morganton Boulevard SW
 Lenoir, NC
 DSCA Site ID DC140001

DRAWN BY: JTH	CHECKED BY: RHM	PROJECT NO: 60477865
SHEET: ATT. 10		

URS SOIL BORING LOG

PROJECT NO: 60477865	BORING NO: SB-17	PROJECT NAME: Jordan Cleaners
DATE BEGAN: 3/9/16	DATE FINISHED: 3/9/16	FIELD ENGINEER: Jeff Hvozdk
DRILLER: Jeffrey T. Hvozdk	NORTH: 1251074.106	EAST: 797013.077
GROUND SURFACE ELEVATION: 1094.17	GWL DATE/TIME: NA	GWL DEPTH: NA
DRILLING METHOD: Hand Auger	DRILL EQUIP: Hand Auger	CHECKED BY: RHM
CONTRACTOR:		

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (%)	PROFILE	DESCRIPTION	USCS	FID (ppm)	FID Graph <i>0 to 1500 ppm</i>	Laboratory Analytical Results
0						Asphalt: Some gravel				
						Silty Clay: Orange-brown or brown to gray, moist, some sand, very micaceous	CL	0.0		
	SB-17 (1'-2')							0.6		<i>BDL</i>
		HA		100		Sandy Silt: Orange-brown to brown, moist to wet, very micaceous, Mn staining	ML	0.5		
								0.5		
						Boring Terminated @ 4' bgs				



Soil Boring Log SB-17
 Jordan Cleaners
 220 Morganton Boulevard SW
 Lenoir, NC
 DSCA Site ID DC140001

DRAWN BY:	JTH	CHECKED BY:	RHM	PROJECT NO:	60477865
SHEET:		ATT. 10			

ATTACHMENT 11
SOIL BORING LOCATION MAP



LEGEND

- Jordan Cleaners, 220 Morganton Blvd SW
- Petitioned Property Boundary
- URS Soil Boring Location and Identification
- URS Monitoring Well Location and Identification
- IBS Soil Boring Location and Identification (IBS, 2015)
- IBS Groundwater Sample Location and Identification (IBS, 2015)
- Former Dry Cleaning Machine Location
- Parcel Lines

Due to poor recovery during borehole advancement using Direct Push Technology (DPT) lined with an acetate liner, as well as common field errors: a) an asterisk (*) has been used to indicate that the soil lithology is likely to be more representative of soil from an overlying unit; b) two asterisks (**) have been used to indicate that the soil lithology and sample results are likely to be more representative of soil from an overlying unit.

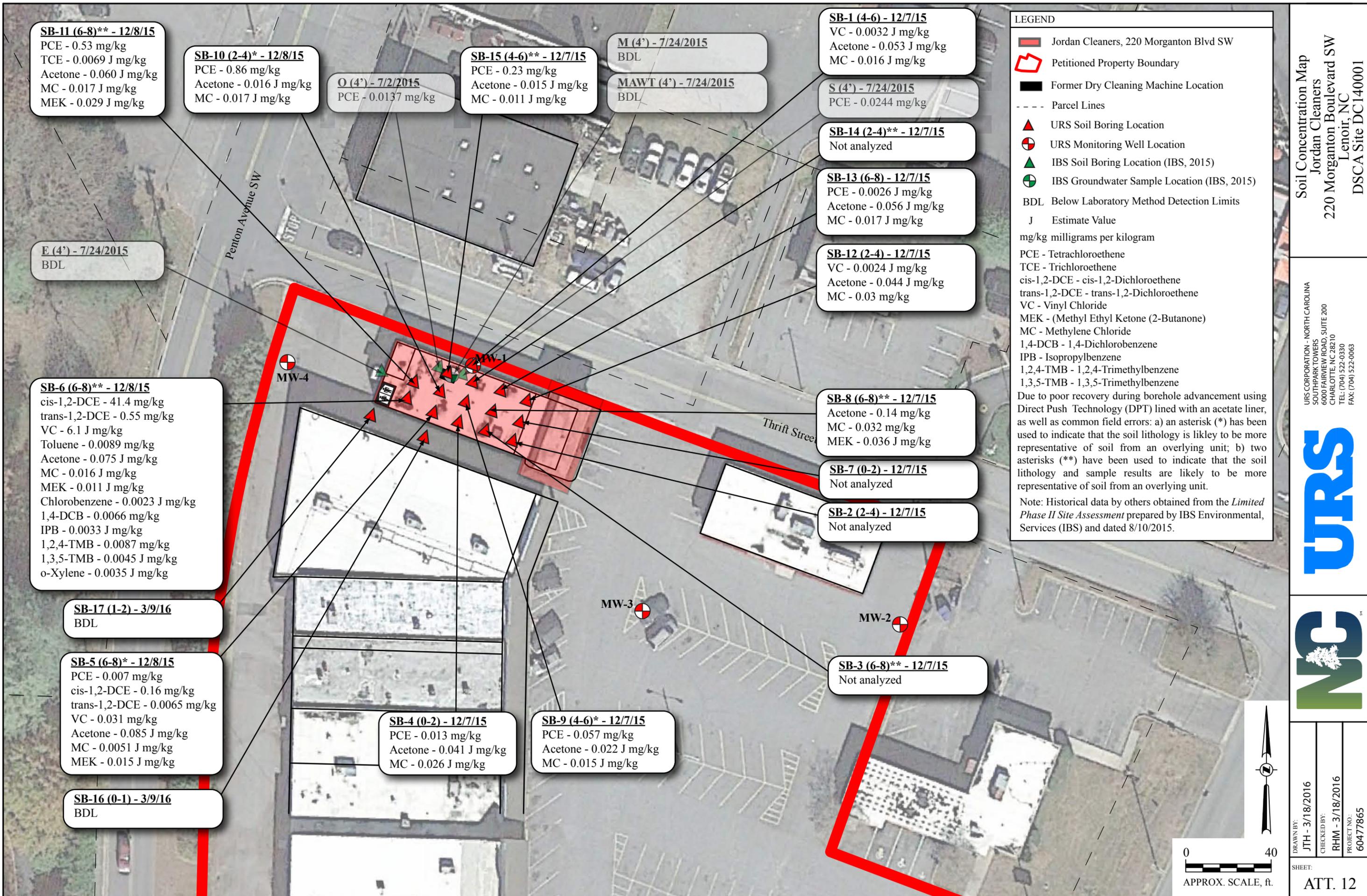
Note: Historical data by others obtained from the *Limited Phase II Site Assessment* prepared by IBS Environmental, Services (IBS) and dated 8/10/2015.

URS CORPORATION - NORTH CAROLINA
 SOUTHPARK TOWERS
 6000 FAIRVIEW ROAD, SUITE 200
 CHARLOTTE, NC 28210
 TEL: (704) 522-0330
 FAX: (704) 522-0063

Soil Boring Location Map
 Jordan Cleaners
 220 Morganton Boulevard SW
 Lenoir, NC
 DSCA Site DC140001

DRAWN BY: JTH - 3/15/16	CHECKED BY: RHM - 3/15/16	PROJECT NO. : 60477865
SHEET ATT. 11		

ATTACHMENT 12
SOIL CONTAMINANT CONCENTRATION MAPS



SB-11 (6-8) - 12/8/15**
 PCE - 0.53 mg/kg
 TCE - 0.0069 J mg/kg
 Acetone - 0.060 J mg/kg
 MC - 0.017 J mg/kg
 MEK - 0.029 J mg/kg

SB-10 (2-4)* - 12/8/15
 PCE - 0.86 mg/kg
 Acetone - 0.016 J mg/kg
 MC - 0.017 J mg/kg

O (4') - 7/2/2015
 PCE - 0.0137 mg/kg

SB-15 (4-6) - 12/7/15**
 PCE - 0.23 mg/kg
 Acetone - 0.015 J mg/kg
 MC - 0.011 J mg/kg

M (4') - 7/24/2015
 BDL

MAWT (4') - 7/24/2015
 BDL

SB-1 (4-6) - 12/7/15
 VC - 0.0032 J mg/kg
 Acetone - 0.053 J mg/kg
 MC - 0.016 J mg/kg

S (4') - 7/24/2015
 PCE - 0.0244 mg/kg

SB-14 (2-4) - 12/7/15**
 Not analyzed

SB-13 (6-8) - 12/7/15
 PCE - 0.0026 J mg/kg
 Acetone - 0.056 J mg/kg
 MC - 0.017 J mg/kg

SB-12 (2-4) - 12/7/15
 VC - 0.0024 J mg/kg
 Acetone - 0.044 J mg/kg
 MC - 0.03 mg/kg

E (4') - 7/24/2015
 BDL

SB-6 (6-8) - 12/8/15**
 cis-1,2-DCE - 41.4 mg/kg
 trans-1,2-DCE - 0.55 mg/kg
 VC - 6.1 J mg/kg
 Toluene - 0.0089 mg/kg
 Acetone - 0.075 J mg/kg
 MC - 0.016 J mg/kg
 MEK - 0.011 J mg/kg
 Chlorobenzene - 0.0023 J mg/kg
 1,4-DCB - 0.0066 mg/kg
 IPB - 0.0033 J mg/kg
 1,2,4-TMB - 0.0087 mg/kg
 1,3,5-TMB - 0.0045 J mg/kg
 o-Xylene - 0.0035 J mg/kg

SB-8 (6-8) - 12/7/15**
 Acetone - 0.14 mg/kg
 MC - 0.032 mg/kg
 MEK - 0.036 J mg/kg

SB-7 (0-2) - 12/7/15
 Not analyzed

SB-2 (2-4) - 12/7/15
 Not analyzed

SB-17 (1-2) - 3/9/16
 BDL

SB-5 (6-8)* - 12/8/15
 PCE - 0.007 mg/kg
 cis-1,2-DCE - 0.16 mg/kg
 trans-1,2-DCE - 0.0065 mg/kg
 VC - 0.031 mg/kg
 Acetone - 0.085 J mg/kg
 MC - 0.0051 J mg/kg
 MEK - 0.015 J mg/kg

SB-16 (0-1) - 3/9/16
 BDL

SB-4 (0-2) - 12/7/15
 PCE - 0.013 mg/kg
 Acetone - 0.041 J mg/kg
 MC - 0.026 J mg/kg

SB-9 (4-6)* - 12/7/15
 PCE - 0.057 mg/kg
 Acetone - 0.022 J mg/kg
 MC - 0.015 J mg/kg

LEGEND

- ▬ Jordan Cleaners, 220 Morganton Blvd SW
- ▭ Petitioned Property Boundary
- Former Dry Cleaning Machine Location
- - - Parcel Lines
- ▲ URS Soil Boring Location
- ⊕ URS Monitoring Well Location
- ▲ IBS Soil Boring Location (IBS, 2015)
- ⊕ IBS Groundwater Sample Location (IBS, 2015)
- BDL Below Laboratory Method Detection Limits
- J Estimate Value
- mg/kg milligrams per kilogram
- PCE - Tetrachloroethene
- TCE - Trichloroethene
- cis-1,2-DCE - cis-1,2-Dichloroethene
- trans-1,2-DCE - trans-1,2-Dichloroethene
- VC - Vinyl Chloride
- MEK - (Methyl Ethyl Ketone (2-Butanone))
- MC - Methylene Chloride
- 1,4-DCB - 1,4-Dichlorobenzene
- IPB - Isopropylbenzene
- 1,2,4-TMB - 1,2,4-Trimethylbenzene
- 1,3,5-TMB - 1,3,5-Trimethylbenzene

Due to poor recovery during borehole advancement using Direct Push Technology (DPT) lined with an acetate liner, as well as common field errors: a) an asterisk (*) has been used to indicate that the soil lithology is likely to be more representative of soil from an overlying unit; b) two asterisks (**) have been used to indicate that the soil lithology and sample results are likely to be more representative of soil from an overlying unit.

Note: Historical data by others obtained from the *Limited Phase II Site Assessment* prepared by IBS Environmental Services (IBS) and dated 8/10/2015.

Soil Concentration Map
 Jordan Cleaners
 220 Morganton Boulevard SW
 Lenoir, NC
 DSCA Site DC140001

URS CORPORATION - NORTH CAROLINA
 SOUTH PARK TOWERS
 6000 FAIRVIEW ROAD, SUITE 200
 CHARLOTTE, NC 28210
 TEL: (704) 522-0330
 FAX: (704) 522-0063



DRAWN BY: JTH - 3/18/2016
 CHECKED BY: RHM - 3/18/2016
 PROJECT NO.: 60477865

SHEET: ATT. 12

**ATTACHMENT 14
MONITORING WELL LOCATION MAP**



LEGEND

- Jordan Cleaners, 220 Morganton Blvd SW
- Petitioned Property Boundary
- Former Dry Cleaning Machine Location
- Parcel Lines
- URS Monitoring Well Location and Identification
 MW-1
- IBS Groundwater Sample Location and Identification (IBS, 2015)
 MW

Note: Historical data by others obtained from the *Limited Phase II Site Assessment* prepared by IBS Environmental, Services (IBS) and dated 8/10/2015.

Monitoring Well Location Map
 Jordan Cleaners
 220 Morganton Boulevard SW
 Lenoir, NC
 DSCA Site DC140001

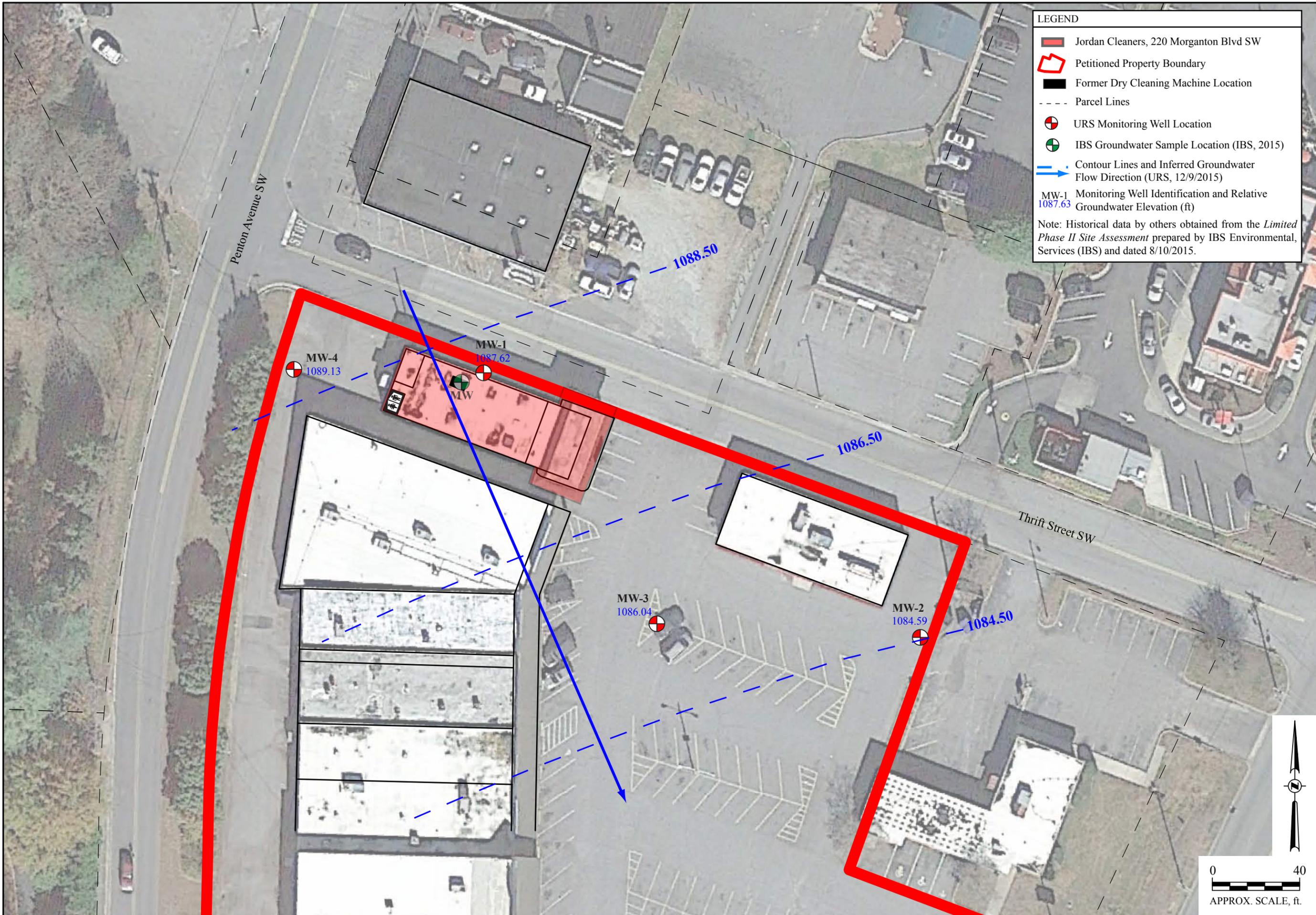
URS CORPORATION - NORTH CAROLINA
 SOUTH PARK TOWERS
 6000 FAIRVIEW ROAD, SUITE 200
 CHARLOTTE, NC 28210
 TEL: (704) 522-0330
 FAX: (704) 522-0063



APPROX. SCALE, ft.

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PROJECT NO.: 60477865	
SHEET: ATT. 14	

**ATTACHMENT 16
GROUNDWATER GRADIENT MAP**



LEGEND

- Jordan Cleaners, 220 Morganton Blvd SW
- Petitioned Property Boundary
- Former Dry Cleaning Machine Location
- Parcel Lines
- URS Monitoring Well Location
- IBS Groundwater Sample Location (IBS, 2015)
- Contour Lines and Inferred Groundwater Flow Direction (URS, 12/9/2015)

MW-1 Monitoring Well Identification and Relative Groundwater Elevation (ft)
1087.63

Note: Historical data by others obtained from the *Limited Phase II Site Assessment* prepared by IBS Environmental Services (IBS) and dated 8/10/2015.

Groundwater Contour Map, 12/9/2015
 Jordan Cleaners
 220 Morganton Boulevard SW
 Lenoir, NC
 DSCA Site DC140001

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 SOUTH PARK TOWERS
 6000 FAIRVIEW ROAD, SUITE 200
 CHARLOTTE, NC 28210
 TEL: (704) 522-0330
 FAX: (704) 522-0063

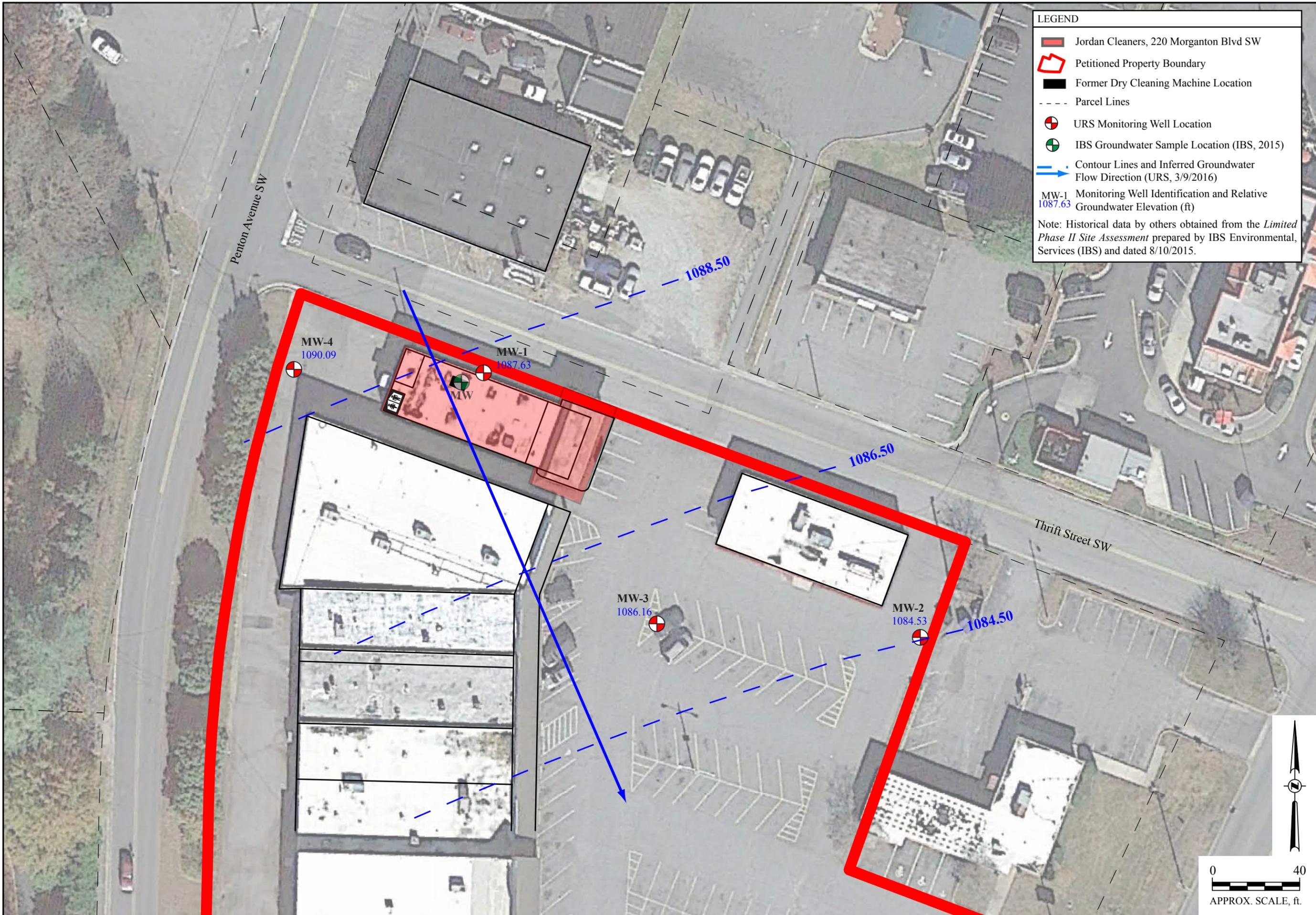


0 40

APPROX. SCALE, ft.

NORTH

DRAWN BY: JTH - 3/18/2016	SHEET: ATT. 16-1
CHECKED BY: RHM - 3/18/2016	PROJECT NO.: 60477865



LEGEND

- Jordan Cleaners, 220 Morganton Blvd SW
- Petitioned Property Boundary
- Former Dry Cleaning Machine Location
- Parcel Lines
- URS Monitoring Well Location
- IBS Groundwater Sample Location (IBS, 2015)
- Contour Lines and Inferred Groundwater Flow Direction (URS, 3/9/2016)

MW-1 Monitoring Well Identification and Relative Groundwater Elevation (ft)
1087.63

Note: Historical data by others obtained from the *Limited Phase II Site Assessment* prepared by IBS Environmental Services (IBS) and dated 8/10/2015.

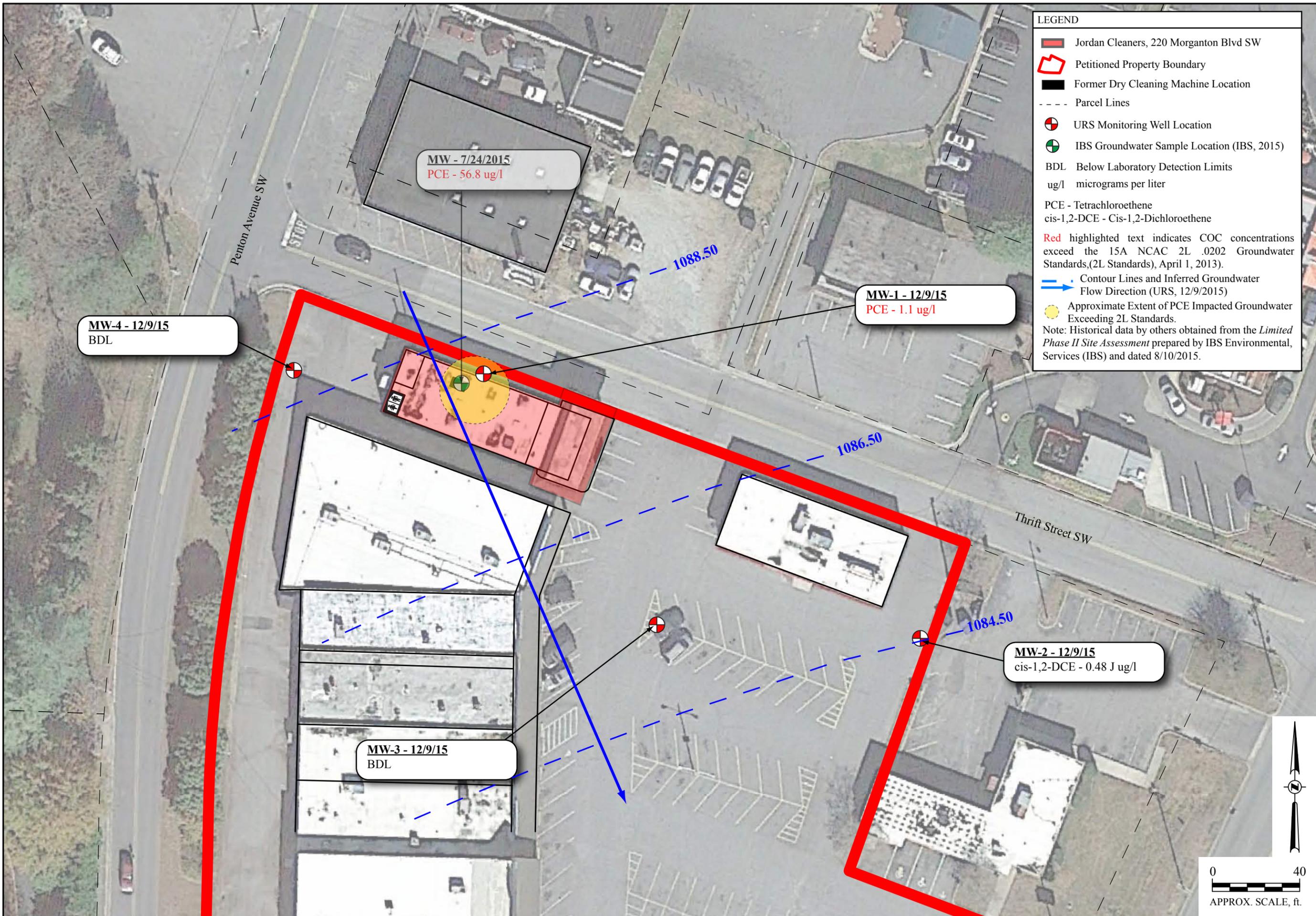
Groundwater Contour Map, 3/9/2016
 Jordan Cleaners
 220 Morganton Boulevard SW
 Lenoir, NC
 DSCA Site DC140001

URS CORPORATION - NORTH CAROLINA
 SOUTH PARK TOWERS
 6000 FAIRVIEW ROAD, SUITE 200
 CHARLOTTE, NC 28210
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 FAX: (704) 522-0063



DRAWN BY: JTH - 3/18/2016	SHEET: ATT. 16-2
CHECKED BY: RHM - 3/18/2016	PROJECT NO.: 60477865

ATTACHMENT 17
GROUNDWATER CONTAMINANT CONCENTRATION MAP



LEGEND

- Jordan Cleaners, 220 Morganton Blvd SW
- Petitioned Property Boundary
- Former Dry Cleaning Machine Location
- Parcel Lines
- URS Monitoring Well Location
- IBS Groundwater Sample Location (IBS, 2015)
- BDL - Below Laboratory Detection Limits
- ug/l - micrograms per liter
- PCE - Tetrachloroethene
- cis-1,2-DCE - Cis-1,2-Dichloroethene
- Red highlighted text indicates COC concentrations exceed the 15A NCAC 2L .0202 Groundwater Standards,(2L Standards), April 1, 2013).
- Contour Lines and Inferred Groundwater Flow Direction (URS, 12/9/2015)
- Approximate Extent of PCE Impacted Groundwater Exceeding 2L Standards.

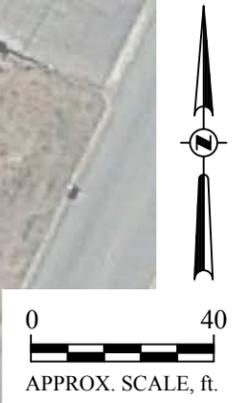
Note: Historical data by others obtained from the *Limited Phase II Site Assessment* prepared by IBS Environmental, Services (IBS) and dated 8/10/2015.

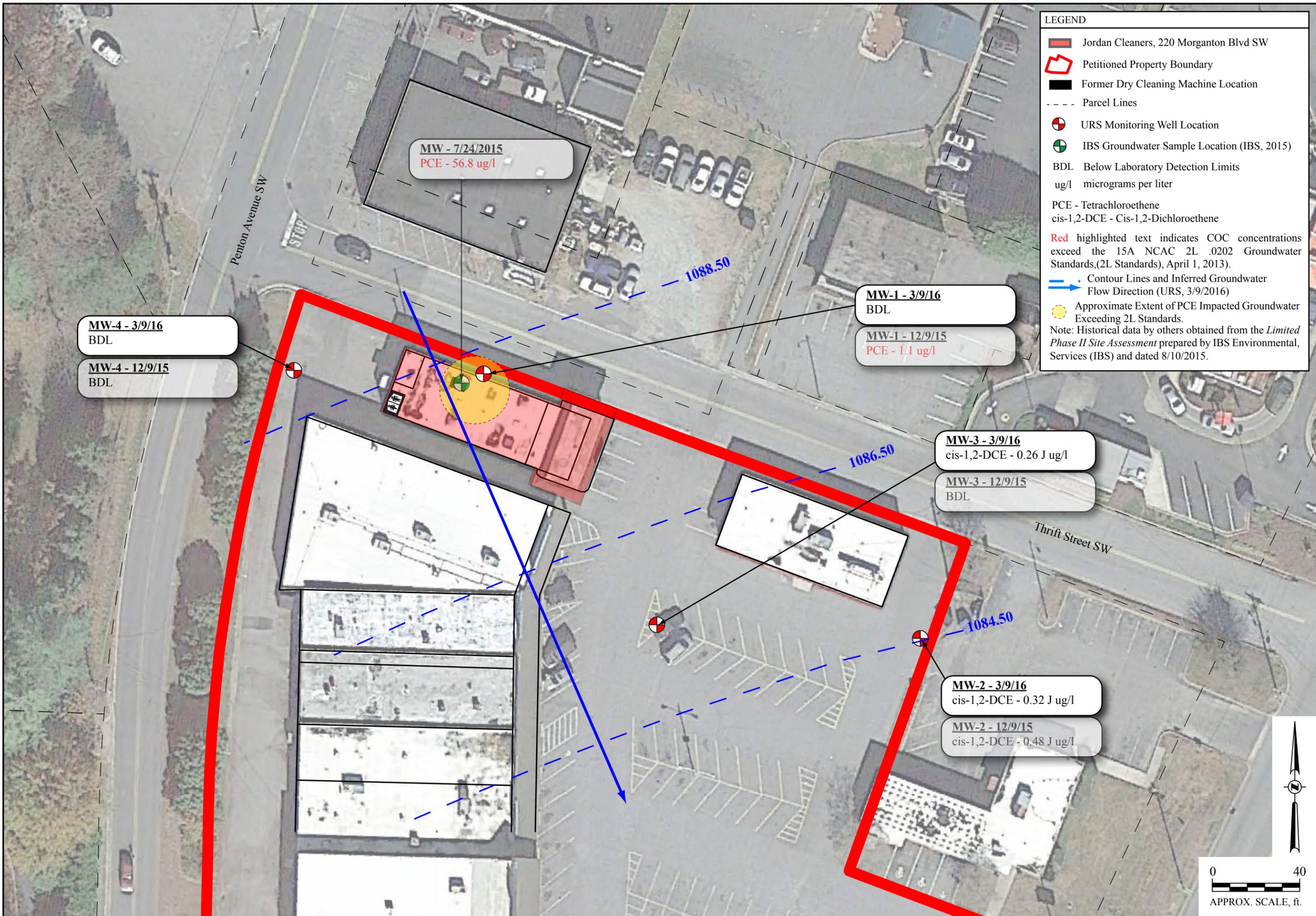
Groundwater Concentration Map
 Jordan Cleaners
 220 Morganton Boulevard SW
 Lenoir, NC
 DSCA Site DC140001

URS CORPORATION - NORTH CAROLINA
 SOUTH PARK TOWERS
 6000 FAIRVIEW ROAD, SUITE 200
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PROJECT NO.: 60477865	SHEET: ATT. 17-1





LEGEND

- Jordan Cleaners, 220 Morganton Blvd SW
- Petitioned Property Boundary
- Former Dry Cleaning Machine Location
- Parcel Lines
- URS Monitoring Well Location
- IBS Groundwater Sample Location (IBS, 2015)
- BDL Below Laboratory Detection Limits
- ug/l micrograms per liter
- PCE - Tetrachloroethene
- cis-1,2-DCE - Cis-1,2-Dichloroethene
- Red highlighted text indicates COC concentrations exceed the 15A NCAC 2L .0202 Groundwater Standards, (2L Standards), April 1, 2013).
- Contour Lines and Inferred Groundwater Flow Direction (URS, 3/9/2016)
- Flow Direction (URS, 3/9/2016)
- Approximate Extent of PCE Impacted Groundwater Exceeding 2L Standards.

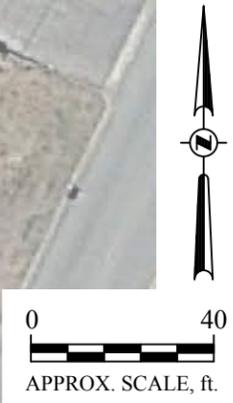
Note: Historical data by others obtained from the *Limited Phase II Site Assessment* prepared by IBS Environmental, Services (IBS) and dated 8/10/2015.

Groundwater Concentration Map
 Jordan Cleaners
 220 Morganton Boulevard SW
 Lenoir, NC
 DSCA Site DC140001

URS CORPORATION - NORTH CAROLINA
 SOUTH PARK TOWERS
 6000 FAIRVIEW ROAD, SUITE 200
 CHARLOTTE, NC 28210
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SHEET: ATT. 17-2		



**ATTACHMENT 21
ANALYTICAL DATA**

March 15, 2016

Jeff Hvozdik
AECOM
PO Box 203970
Austin, TX 78720

RE: Project: JORDAN CLEANERS 60477865
Pace Project No.: 92289614

Dear Jeff Hvozdik:

Enclosed are the analytical results for sample(s) received by the laboratory on March 10, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

Sincerely,



Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
Project Manager

Enclosures

cc: NC Chemists, AECOM



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: JORDAN CLEANERS 60477865

Pace Project No.: 92289614

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: JORDAN CLEANERS 60477865

Pace Project No.: 92289614

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92289614001	MW-1	Water	03/09/16 11:00	03/10/16 08:44
92289614002	MW-2	Water	03/09/16 11:20	03/10/16 08:44
92289614003	MW-3	Water	03/09/16 11:40	03/10/16 08:44
92289614004	MW-4	Water	03/09/16 12:00	03/10/16 08:44
92289614005	SB-16 (0-1)	Solid	03/09/16 13:30	03/10/16 08:44
92289614006	SB-17 (1-2)	Solid	03/09/16 13:35	03/10/16 08:44

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: JORDAN CLEANERS 60477865

Pace Project No.: 92289614

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92289614001	MW-1	EPA 8260	NB	66	PASI-C
92289614002	MW-2	EPA 8260	NB	66	PASI-C
92289614003	MW-3	EPA 8260	NB	66	PASI-C
92289614004	MW-4	EPA 8260	NB	66	PASI-C
92289614005	SB-16 (0-1)	EPA 8260	DLK	8	PASI-C
		ASTM D2974-87	KDF	1	PASI-C
92289614006	SB-17 (1-2)	EPA 8260	DLK	8	PASI-C
		ASTM D2974-87	KDF	1	PASI-C

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: JORDAN CLEANERS 60477865

Pace Project No.: 92289614

Sample: MW-1 **Lab ID: 92289614001** Collected: 03/09/16 11:00 Received: 03/10/16 08:44 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level									
Analytical Method: EPA 8260									
Acetone	ND	ug/L	25.0	10.0	1		03/11/16 17:47	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		03/11/16 17:47	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		03/11/16 17:47	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		03/11/16 17:47	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		03/11/16 17:47	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		03/11/16 17:47	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		03/11/16 17:47	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		03/11/16 17:47	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		03/11/16 17:47	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		03/11/16 17:47	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		03/11/16 17:47	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		03/11/16 17:47	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		03/11/16 17:47	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		03/11/16 17:47	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		03/11/16 17:47	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		03/11/16 17:47	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		03/11/16 17:47	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		03/11/16 17:47	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		03/11/16 17:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		03/11/16 17:47	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		03/11/16 17:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		03/11/16 17:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		03/11/16 17:47	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		03/11/16 17:47	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		03/11/16 17:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		03/11/16 17:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		03/11/16 17:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		03/11/16 17:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		03/11/16 17:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		03/11/16 17:47	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		03/11/16 17:47	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		03/11/16 17:47	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		03/11/16 17:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		03/11/16 17:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		03/11/16 17:47	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		03/11/16 17:47	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/11/16 17:47	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		03/11/16 17:47	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		03/11/16 17:47	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		03/11/16 17:47	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		03/11/16 17:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		03/11/16 17:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		03/11/16 17:47	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		03/11/16 17:47	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		03/11/16 17:47	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		03/11/16 17:47	100-42-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: JORDAN CLEANERS 60477865

Pace Project No.: 92289614

Sample: MW-1 **Lab ID: 92289614001** Collected: 03/09/16 11:00 Received: 03/10/16 08:44 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		03/11/16 17:47	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		03/11/16 17:47	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		03/11/16 17:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		03/11/16 17:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		03/11/16 17:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		03/11/16 17:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		03/11/16 17:47	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		03/11/16 17:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		03/11/16 17:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		03/11/16 17:47	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		03/11/16 17:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		03/11/16 17:47	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		03/11/16 17:47	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		03/11/16 17:47	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		03/11/16 17:47	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		03/11/16 17:47	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		03/11/16 17:47	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		03/11/16 17:47	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		03/11/16 17:47	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		03/11/16 17:47	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: JORDAN CLEANERS 60477865

Pace Project No.: 92289614

Sample: MW-2 Lab ID: 92289614002 Collected: 03/09/16 11:20 Received: 03/10/16 08:44 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level		Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	10.0	1		03/11/16 18:03	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		03/11/16 18:03	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		03/11/16 18:03	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		03/11/16 18:03	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		03/11/16 18:03	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		03/11/16 18:03	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		03/11/16 18:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		03/11/16 18:03	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		03/11/16 18:03	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		03/11/16 18:03	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		03/11/16 18:03	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		03/11/16 18:03	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		03/11/16 18:03	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		03/11/16 18:03	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		03/11/16 18:03	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		03/11/16 18:03	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		03/11/16 18:03	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		03/11/16 18:03	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		03/11/16 18:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		03/11/16 18:03	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		03/11/16 18:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		03/11/16 18:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		03/11/16 18:03	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		03/11/16 18:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		03/11/16 18:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		03/11/16 18:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		03/11/16 18:03	75-35-4	
cis-1,2-Dichloroethene	0.32J	ug/L	1.0	0.19	1		03/11/16 18:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		03/11/16 18:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		03/11/16 18:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		03/11/16 18:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		03/11/16 18:03	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		03/11/16 18:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		03/11/16 18:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		03/11/16 18:03	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		03/11/16 18:03	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/11/16 18:03	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		03/11/16 18:03	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		03/11/16 18:03	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		03/11/16 18:03	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		03/11/16 18:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		03/11/16 18:03	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		03/11/16 18:03	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		03/11/16 18:03	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		03/11/16 18:03	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		03/11/16 18:03	100-42-5	

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ANALYTICAL RESULTS

Project: JORDAN CLEANERS 60477865

Pace Project No.: 92289614

Sample: MW-2 **Lab ID: 92289614002** Collected: 03/09/16 11:20 Received: 03/10/16 08:44 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		03/11/16 18:03	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		03/11/16 18:03	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		03/11/16 18:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		03/11/16 18:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		03/11/16 18:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		03/11/16 18:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		03/11/16 18:03	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		03/11/16 18:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		03/11/16 18:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		03/11/16 18:03	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		03/11/16 18:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		03/11/16 18:03	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		03/11/16 18:03	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		03/11/16 18:03	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		03/11/16 18:03	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		03/11/16 18:03	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		03/11/16 18:03	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		03/11/16 18:03	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		03/11/16 18:03	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		03/11/16 18:03	2037-26-5	

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ANALYTICAL RESULTS

Project: JORDAN CLEANERS 60477865

Pace Project No.: 92289614

Sample: MW-3 Lab ID: 92289614003 Collected: 03/09/16 11:40 Received: 03/10/16 08:44 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level									
Analytical Method: EPA 8260									
Acetone	ND	ug/L	25.0	10.0	1		03/11/16 18:19	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		03/11/16 18:19	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		03/11/16 18:19	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		03/11/16 18:19	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		03/11/16 18:19	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		03/11/16 18:19	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		03/11/16 18:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		03/11/16 18:19	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		03/11/16 18:19	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		03/11/16 18:19	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		03/11/16 18:19	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		03/11/16 18:19	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		03/11/16 18:19	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		03/11/16 18:19	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		03/11/16 18:19	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		03/11/16 18:19	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		03/11/16 18:19	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		03/11/16 18:19	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		03/11/16 18:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		03/11/16 18:19	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		03/11/16 18:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		03/11/16 18:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		03/11/16 18:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		03/11/16 18:19	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		03/11/16 18:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		03/11/16 18:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		03/11/16 18:19	75-35-4	
cis-1,2-Dichloroethene	0.26J	ug/L	1.0	0.19	1		03/11/16 18:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		03/11/16 18:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		03/11/16 18:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		03/11/16 18:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		03/11/16 18:19	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		03/11/16 18:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		03/11/16 18:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		03/11/16 18:19	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		03/11/16 18:19	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/11/16 18:19	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		03/11/16 18:19	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		03/11/16 18:19	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		03/11/16 18:19	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		03/11/16 18:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		03/11/16 18:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		03/11/16 18:19	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		03/11/16 18:19	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		03/11/16 18:19	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		03/11/16 18:19	100-42-5	

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ANALYTICAL RESULTS

Project: JORDAN CLEANERS 60477865

Pace Project No.: 92289614

Sample: MW-3 **Lab ID: 92289614003** Collected: 03/09/16 11:40 Received: 03/10/16 08:44 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		03/11/16 18:19	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		03/11/16 18:19	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		03/11/16 18:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		03/11/16 18:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		03/11/16 18:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		03/11/16 18:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		03/11/16 18:19	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		03/11/16 18:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		03/11/16 18:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		03/11/16 18:19	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		03/11/16 18:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		03/11/16 18:19	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		03/11/16 18:19	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		03/11/16 18:19	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		03/11/16 18:19	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		03/11/16 18:19	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		03/11/16 18:19	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		03/11/16 18:19	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		03/11/16 18:19	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		03/11/16 18:19	2037-26-5	

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ANALYTICAL RESULTS

Project: JORDAN CLEANERS 60477865

Pace Project No.: 92289614

Sample: MW-4 **Lab ID: 92289614004** Collected: 03/09/16 12:00 Received: 03/10/16 08:44 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level		Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	10.0	1		03/11/16 18:36	67-64-1	
Benzene	ND	ug/L	1.0	0.25	1		03/11/16 18:36	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.30	1		03/11/16 18:36	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.17	1		03/11/16 18:36	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		03/11/16 18:36	75-27-4	
Bromoform	ND	ug/L	1.0	0.26	1		03/11/16 18:36	75-25-2	
Bromomethane	ND	ug/L	2.0	0.29	1		03/11/16 18:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	0.96	1		03/11/16 18:36	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.41	1		03/11/16 18:36	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.38	1		03/11/16 18:36	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.40	1		03/11/16 18:36	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		03/11/16 18:36	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.23	1		03/11/16 18:36	108-90-7	
Chloroethane	ND	ug/L	1.0	0.54	1		03/11/16 18:36	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		03/11/16 18:36	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		03/11/16 18:36	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.35	1		03/11/16 18:36	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.31	1		03/11/16 18:36	106-43-4	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		03/11/16 18:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		03/11/16 18:36	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.30	1		03/11/16 18:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.24	1		03/11/16 18:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		03/11/16 18:36	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		03/11/16 18:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.32	1		03/11/16 18:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.24	1		03/11/16 18:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.56	1		03/11/16 18:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.19	1		03/11/16 18:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.49	1		03/11/16 18:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		03/11/16 18:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		03/11/16 18:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.13	1		03/11/16 18:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.49	1		03/11/16 18:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		03/11/16 18:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		03/11/16 18:36	10061-02-6	
Diisopropyl ether	ND	ug/L	1.0	0.12	1		03/11/16 18:36	108-20-3	
Ethylbenzene	ND	ug/L	1.0	0.30	1		03/11/16 18:36	100-41-4	
2-Hexanone	ND	ug/L	5.0	0.46	1		03/11/16 18:36	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.40	1		03/11/16 18:36	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.31	1		03/11/16 18:36	99-87-6	
Methylene Chloride	ND	ug/L	2.0	0.97	1		03/11/16 18:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.33	1		03/11/16 18:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.21	1		03/11/16 18:36	1634-04-4	
Naphthalene	ND	ug/L	1.0	0.24	1		03/11/16 18:36	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.42	1		03/11/16 18:36	103-65-1	
Styrene	ND	ug/L	1.0	0.26	1		03/11/16 18:36	100-42-5	

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ANALYTICAL RESULTS

Project: JORDAN CLEANERS 60477865

Pace Project No.: 92289614

Sample: MW-4 **Lab ID: 92289614004** Collected: 03/09/16 12:00 Received: 03/10/16 08:44 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
8260 MSV Low Level									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.40	1		03/11/16 18:36	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		03/11/16 18:36	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		03/11/16 18:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.33	1		03/11/16 18:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.35	1		03/11/16 18:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		03/11/16 18:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		03/11/16 18:36	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		03/11/16 18:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		03/11/16 18:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		03/11/16 18:36	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.31	1		03/11/16 18:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.36	1		03/11/16 18:36	108-67-8	
Vinyl acetate	ND	ug/L	2.0	0.35	1		03/11/16 18:36	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		03/11/16 18:36	75-01-4	
Xylene (Total)	ND	ug/L	2.0	0.66	1		03/11/16 18:36	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.66	1		03/11/16 18:36	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.23	1		03/11/16 18:36	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		03/11/16 18:36	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		03/11/16 18:36	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		03/11/16 18:36	2037-26-5	

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ANALYTICAL RESULTS

Project: JORDAN CLEANERS 60477865

Pace Project No.: 92289614

Sample: SB-16 (0-1) **Lab ID: 92289614005** Collected: 03/09/16 13:30 Received: 03/10/16 08:44 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
cis-1,2-Dichloroethene	ND	mg/kg	0.0067	0.0019	1		03/11/16 16:24	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0067	0.0025	1		03/11/16 16:24	156-60-5	
Tetrachloroethene	ND	mg/kg	0.0067	0.0023	1		03/11/16 16:24	127-18-4	
Trichloroethene	ND	mg/kg	0.0067	0.0028	1		03/11/16 16:24	79-01-6	
Vinyl chloride	ND	mg/kg	0.013	0.0024	1		03/11/16 16:24	75-01-4	
Surrogates									
Toluene-d8 (S)	95	%	70-130		1		03/11/16 16:24	2037-26-5	1g
4-Bromofluorobenzene (S)	84	%	70-130		1		03/11/16 16:24	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-132		1		03/11/16 16:24	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	14.7	%	0.10	0.10	1		03/11/16 06:15		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: JORDAN CLEANERS 60477865

Pace Project No.: 92289614

Sample: SB-17 (1-2) **Lab ID: 92289614006** Collected: 03/09/16 13:35 Received: 03/10/16 08:44 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260/5035A Volatile Organics		Analytical Method: EPA 8260							
cis-1,2-Dichloroethene	ND	mg/kg	0.0078	0.0022	1		03/11/16 16:44	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.0078	0.0030	1		03/11/16 16:44	156-60-5	
Tetrachloroethene	ND	mg/kg	0.0078	0.0026	1		03/11/16 16:44	127-18-4	
Trichloroethene	ND	mg/kg	0.0078	0.0033	1		03/11/16 16:44	79-01-6	
Vinyl chloride	ND	mg/kg	0.016	0.0028	1		03/11/16 16:44	75-01-4	
Surrogates									
Toluene-d8 (S)	99	%	70-130		1		03/11/16 16:44	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		03/11/16 16:44	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	70-132		1		03/11/16 16:44	17060-07-0	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	16.1	%	0.10	0.10	1		03/11/16 06:15		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: JORDAN CLEANERS 60477865

Pace Project No.: 92289614

QC Batch: MSV/35919 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92289614001, 92289614002, 92289614003, 92289614004

METHOD BLANK: 1684383 Matrix: Water
Associated Lab Samples: 92289614001, 92289614002, 92289614003, 92289614004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	0.48	03/11/16 13:28	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.40	03/11/16 13:28	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.29	03/11/16 13:28	
1,1-Dichloroethane	ug/L	ND	1.0	0.32	03/11/16 13:28	
1,1-Dichloroethene	ug/L	ND	1.0	0.56	03/11/16 13:28	
1,1-Dichloropropene	ug/L	ND	1.0	0.49	03/11/16 13:28	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	0.33	03/11/16 13:28	
1,2,3-Trichloropropane	ug/L	ND	1.0	0.41	03/11/16 13:28	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	0.35	03/11/16 13:28	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	0.31	03/11/16 13:28	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	0.27	03/11/16 13:28	
1,2-Dichlorobenzene	ug/L	ND	1.0	0.30	03/11/16 13:28	
1,2-Dichloroethane	ug/L	ND	1.0	0.24	03/11/16 13:28	
1,2-Dichloropropane	ug/L	ND	1.0	0.27	03/11/16 13:28	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	0.36	03/11/16 13:28	
1,3-Dichlorobenzene	ug/L	ND	1.0	0.24	03/11/16 13:28	
1,3-Dichloropropane	ug/L	ND	1.0	0.28	03/11/16 13:28	
1,4-Dichlorobenzene	ug/L	ND	1.0	0.33	03/11/16 13:28	
2,2-Dichloropropane	ug/L	ND	1.0	0.13	03/11/16 13:28	
2-Butanone (MEK)	ug/L	ND	5.0	0.96	03/11/16 13:28	
2-Chlorotoluene	ug/L	ND	1.0	0.35	03/11/16 13:28	
2-Hexanone	ug/L	ND	5.0	0.46	03/11/16 13:28	
4-Chlorotoluene	ug/L	ND	1.0	0.31	03/11/16 13:28	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	0.33	03/11/16 13:28	
Acetone	ug/L	ND	25.0	10.0	03/11/16 13:28	
Benzene	ug/L	ND	1.0	0.25	03/11/16 13:28	
Bromobenzene	ug/L	ND	1.0	0.30	03/11/16 13:28	
Bromochloromethane	ug/L	ND	1.0	0.17	03/11/16 13:28	
Bromodichloromethane	ug/L	ND	1.0	0.18	03/11/16 13:28	
Bromoform	ug/L	ND	1.0	0.26	03/11/16 13:28	
Bromomethane	ug/L	ND	2.0	0.29	03/11/16 13:28	
Carbon tetrachloride	ug/L	ND	1.0	0.25	03/11/16 13:28	
Chlorobenzene	ug/L	ND	1.0	0.23	03/11/16 13:28	
Chloroethane	ug/L	ND	1.0	0.54	03/11/16 13:28	
Chloroform	ug/L	ND	1.0	0.14	03/11/16 13:28	
Chloromethane	ug/L	ND	1.0	0.11	03/11/16 13:28	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.19	03/11/16 13:28	
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.13	03/11/16 13:28	
Dibromochloromethane	ug/L	ND	1.0	0.21	03/11/16 13:28	
Dichlorodifluoromethane	ug/L	ND	1.0	0.21	03/11/16 13:28	
Diisopropyl ether	ug/L	ND	1.0	0.12	03/11/16 13:28	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: JORDAN CLEANERS 60477865

Pace Project No.: 92289614

METHOD BLANK: 1684383

Matrix: Water

Associated Lab Samples: 92289614001, 92289614002, 92289614003, 92289614004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	1.0	0.30	03/11/16 13:28	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	0.40	03/11/16 13:28	
m&p-Xylene	ug/L	ND	2.0	0.66	03/11/16 13:28	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.21	03/11/16 13:28	
Methylene Chloride	ug/L	ND	2.0	0.97	03/11/16 13:28	
n-Butylbenzene	ug/L	ND	1.0	0.41	03/11/16 13:28	
n-Propylbenzene	ug/L	ND	1.0	0.42	03/11/16 13:28	
Naphthalene	ug/L	ND	1.0	0.24	03/11/16 13:28	
o-Xylene	ug/L	ND	1.0	0.23	03/11/16 13:28	
p-Isopropyltoluene	ug/L	ND	1.0	0.31	03/11/16 13:28	
sec-Butylbenzene	ug/L	ND	1.0	0.38	03/11/16 13:28	
Styrene	ug/L	ND	1.0	0.26	03/11/16 13:28	
tert-Butylbenzene	ug/L	ND	1.0	0.40	03/11/16 13:28	
Tetrachloroethene	ug/L	ND	1.0	0.46	03/11/16 13:28	
Toluene	ug/L	ND	1.0	0.26	03/11/16 13:28	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.49	03/11/16 13:28	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.26	03/11/16 13:28	
Trichloroethene	ug/L	ND	1.0	0.47	03/11/16 13:28	
Trichlorofluoromethane	ug/L	ND	1.0	0.20	03/11/16 13:28	
Vinyl acetate	ug/L	ND	2.0	0.35	03/11/16 13:28	
Vinyl chloride	ug/L	ND	1.0	0.62	03/11/16 13:28	
Xylene (Total)	ug/L	ND	2.0	0.66	03/11/16 13:28	
1,2-Dichloroethane-d4 (S)	%	99	70-130		03/11/16 13:28	
4-Bromofluorobenzene (S)	%	97	70-130		03/11/16 13:28	
Toluene-d8 (S)	%	100	70-130		03/11/16 13:28	

LABORATORY CONTROL SAMPLE: 1684384

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.1	102	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	49.6	99	70-130	
1,1,2-Trichloroethane	ug/L	50	49.2	98	70-130	
1,1-Dichloroethane	ug/L	50	49.5	99	70-130	
1,1-Dichloroethene	ug/L	50	54.4	109	70-132	
1,1-Dichloropropene	ug/L	50	50.8	102	70-130	
1,2,3-Trichlorobenzene	ug/L	50	50.4	101	70-135	
1,2,3-Trichloropropane	ug/L	50	48.0	96	70-130	
1,2,4-Trichlorobenzene	ug/L	50	49.6	99	70-134	
1,2,4-Trimethylbenzene	ug/L	50	50.9	102	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	51.8	104	70-130	
1,2-Dichlorobenzene	ug/L	50	47.6	95	70-130	
1,2-Dichloroethane	ug/L	50	46.5	93	70-130	
1,2-Dichloropropane	ug/L	50	48.7	97	70-130	
1,3,5-Trimethylbenzene	ug/L	50	50.0	100	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: JORDAN CLEANERS 60477865

Pace Project No.: 92289614

LABORATORY CONTROL SAMPLE: 1684384

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	50.0	100	70-130	
1,3-Dichloropropane	ug/L	50	50.0	100	70-130	
1,4-Dichlorobenzene	ug/L	50	49.5	99	70-130	
2,2-Dichloropropane	ug/L	50	51.5	103	58-145	
2-Butanone (MEK)	ug/L	100	88.3	88	70-145	
2-Chlorotoluene	ug/L	50	47.5	95	70-130	
2-Hexanone	ug/L	100	91.4	91	70-144	
4-Chlorotoluene	ug/L	50	49.0	98	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	95.4	95	70-140	
Acetone	ug/L	100	91.1	91	50-175	
Benzene	ug/L	50	49.9	100	70-130	
Bromobenzene	ug/L	50	50.0	100	70-130	
Bromochloromethane	ug/L	50	51.5	103	70-130	
Bromodichloromethane	ug/L	50	49.4	99	70-130	
Bromoform	ug/L	50	47.0	94	70-130	
Bromomethane	ug/L	50	45.4	91	54-130	
Carbon tetrachloride	ug/L	50	50.1	100	70-132	
Chlorobenzene	ug/L	50	50.9	102	70-130	
Chloroethane	ug/L	50	50.2	100	64-134	
Chloroform	ug/L	50	48.7	97	70-130	
Chloromethane	ug/L	50	48.8	98	64-130	
cis-1,2-Dichloroethene	ug/L	50	50.8	102	70-131	
cis-1,3-Dichloropropene	ug/L	50	49.5	99	70-130	
Dibromochloromethane	ug/L	50	50.8	102	70-130	
Dichlorodifluoromethane	ug/L	50	47.3	95	56-130	
Diisopropyl ether	ug/L	50	49.9	100	70-130	
Ethylbenzene	ug/L	50	50.6	101	70-130	
Isopropylbenzene (Cumene)	ug/L	50	50.1	100	70-130	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	51.0	102	70-130	
Methylene Chloride	ug/L	50	51.6	103	63-130	
n-Butylbenzene	ug/L	50	50.4	101	70-130	
n-Propylbenzene	ug/L	50	49.8	100	70-130	
Naphthalene	ug/L	50	48.3	97	70-138	
o-Xylene	ug/L	50	49.6	99	70-130	
p-Isopropyltoluene	ug/L	50	50.8	102	70-130	
sec-Butylbenzene	ug/L	50	49.9	100	70-130	
Styrene	ug/L	50	50.5	101	70-130	
tert-Butylbenzene	ug/L	50	42.1	84	70-130	
Tetrachloroethene	ug/L	50	49.2	98	70-130	
Toluene	ug/L	50	49.1	98	70-130	
trans-1,2-Dichloroethene	ug/L	50	51.5	103	70-130	
trans-1,3-Dichloropropene	ug/L	50	49.7	99	70-132	
Trichloroethene	ug/L	50	48.7	97	70-130	
Trichlorofluoromethane	ug/L	50	50.7	101	62-133	
Vinyl acetate	ug/L	100	98.2	98	66-157	
Vinyl chloride	ug/L	50	52.4	105	50-150	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: JORDAN CLEANERS 60477865

Pace Project No.: 92289614

LABORATORY CONTROL SAMPLE: 1684384

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	150	100	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1684385 1684386

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92289456027 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1-Trichloroethane	ug/L	ND	20	20	21.1	22.1	106	111	70-130	5	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.1	19.6	95	98	70-130	3	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	20.4	20.6	102	103	70-130	1	30	
1,1-Dichloroethane	ug/L	ND	20	20	20.1	20.5	101	102	70-130	2	30	
1,1-Dichloroethene	ug/L	ND	20	20	22.7	23.6	113	118	70-166	4	30	
1,1-Dichloropropene	ug/L	ND	20	20	21.7	22.3	109	111	70-130	3	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20.1	20.1	101	100	70-130	0	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	18.5	19.6	93	98	70-130	6	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	21.2	20.1	106	101	70-130	5	30	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	21.1	20.7	106	104	70-130	2	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.4	21.1	102	105	70-130	3	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.7	19.5	98	97	70-130	1	30	
1,2-Dichloroethane	ug/L	ND	20	20	18.6	19.6	92	97	70-130	5	30	
1,2-Dichloropropane	ug/L	ND	20	20	20.3	20.2	102	101	70-130	0	30	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.9	20.5	105	103	70-130	2	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.3	20.2	102	101	70-130	1	30	
1,3-Dichloropropane	ug/L	ND	20	20	20.2	20.9	101	104	70-130	3	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	20.5	20.2	103	101	70-130	2	30	
2,2-Dichloropropane	ug/L	ND	20	20	19.5	20.5	98	103	70-130	5	30	
2-Butanone (MEK)	ug/L	ND	40	40	41.9	40.6	105	102	70-130	3	30	
2-Chlorotoluene	ug/L	ND	20	20	19.9	19.6	99	98	70-130	1	30	
2-Hexanone	ug/L	ND	40	40	38.7	38.2	97	96	70-130	1	30	
4-Chlorotoluene	ug/L	ND	20	20	20.3	20.6	101	103	70-130	2	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	41.4	41.2	103	103	70-130	0	30	
Acetone	ug/L	ND	40	40	52.7	45.4	121	102	70-130	15	30	
Benzene	ug/L	ND	20	20	21.2	21.2	106	106	70-148	0	30	
Bromobenzene	ug/L	ND	20	20	20.6	20.8	103	104	70-130	1	30	
Bromochloromethane	ug/L	ND	20	20	21.1	22.1	106	111	70-130	5	30	
Bromodichloromethane	ug/L	ND	20	20	20.1	20.3	101	102	70-130	1	30	
Bromoform	ug/L	ND	20	20	17.9	17.7	89	89	70-130	1	30	
Bromomethane	ug/L	ND	20	20	16.0	16.4	80	82	70-130	2	30	
Carbon tetrachloride	ug/L	ND	20	20	20.7	21.3	103	107	70-130	3	30	
Chlorobenzene	ug/L	ND	20	20	20.4	20.7	102	103	70-146	2	30	
Chloroethane	ug/L	ND	20	20	21.1	21.2	106	106	70-130	0	30	
Chloroform	ug/L	ND	20	20	20.6	20.5	103	103	70-130	1	30	

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QUALITY CONTROL DATA

Project: JORDAN CLEANERS 60477865

Pace Project No.: 92289614

Parameter	Units	1684385		1684386		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Chloromethane	ug/L	ND	20	20	19.3	20.0	97	100	70-130	4	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.6	21.5	103	107	70-130	4	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	20.2	20.3	101	101	70-130	0	30	
Dibromochloromethane	ug/L	ND	20	20	19.3	19.5	97	98	70-130	1	30	
Dichlorodifluoromethane	ug/L	ND	20	20	18.1	18.2	91	91	70-130	1	30	
Diisopropyl ether	ug/L	ND	20	20	20.3	20.7	102	104	70-130	2	30	
Ethylbenzene	ug/L	ND	20	20	20.3	20.9	102	105	70-130	3	30	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	19.8	20.6	99	103	70-130	4	30	
m&p-Xylene	ug/L	ND	40	40	40.2	40.9	99	101	70-130	2	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	20.3	21.2	102	106	70-130	4	30	
Methylene Chloride	ug/L	ND	20	20	21.3	21.6	106	108	70-130	2	30	
n-Butylbenzene	ug/L	ND	20	20	20.9	20.7	105	104	70-130	1	30	
n-Propylbenzene	ug/L	ND	20	20	20.8	20.9	104	104	70-130	0	30	
Naphthalene	ug/L	ND	20	20	20.7	19.8	103	99	70-130	4	30	
o-Xylene	ug/L	ND	20	20	19.6	20.0	98	100	70-130	2	30	
p-Isopropyltoluene	ug/L	ND	20	20	20.8	20.5	104	103	70-130	2	30	
sec-Butylbenzene	ug/L	ND	20	20	20.9	21.0	105	105	70-130	0	30	
Styrene	ug/L	ND	20	20	20.0	20.4	100	102	70-130	2	30	
tert-Butylbenzene	ug/L	ND	20	20	17.4	17.3	87	87	70-130	0	30	
Tetrachloroethene	ug/L	ND	20	20	20.1	20.6	101	103	70-130	3	30	
Toluene	ug/L	ND	20	20	20.7	21.1	103	105	70-155	2	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.6	21.9	108	110	70-130	1	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	19.5	19.9	97	99	70-130	2	30	
Trichloroethene	ug/L	1.7	20	20	22.9	23.0	106	106	69-151	0	30	
Trichlorofluoromethane	ug/L	ND	20	20	21.8	22.2	109	111	70-130	2	30	
Vinyl acetate	ug/L	ND	40	40	36.4	37.6	91	94	70-130	3	30	
Vinyl chloride	ug/L	ND	20	20	21.3	22.0	106	110	70-130	3	30	
1,2-Dichloroethane-d4 (S)	%						96	99	70-130			
4-Bromofluorobenzene (S)	%						99	98	70-130			
Toluene-d8 (S)	%						100	99	70-130			

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: JORDAN CLEANERS 60477865
Pace Project No.: 92289614

QC Batch: MSV/35915 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 92289614005, 92289614006

METHOD BLANK: 1684283 Matrix: Solid
Associated Lab Samples: 92289614005, 92289614006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
cis-1,2-Dichloroethene	mg/kg	ND	0.0051	0.0014	03/11/16 11:28	
Tetrachloroethene	mg/kg	ND	0.0051	0.0017	03/11/16 11:28	
trans-1,2-Dichloroethene	mg/kg	ND	0.0051	0.0019	03/11/16 11:28	
Trichloroethene	mg/kg	ND	0.0051	0.0021	03/11/16 11:28	
Vinyl chloride	mg/kg	ND	0.010	0.0018	03/11/16 11:28	
1,2-Dichloroethane-d4 (S)	%	99	70-132		03/11/16 11:28	
4-Bromofluorobenzene (S)	%	92	70-130		03/11/16 11:28	
Toluene-d8 (S)	%	101	70-130		03/11/16 11:28	

LABORATORY CONTROL SAMPLE: 1684284

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	mg/kg	.06	0.063	106	70-133	
Tetrachloroethene	mg/kg	.06	0.047	79	71-138	
trans-1,2-Dichloroethene	mg/kg	.06	0.064	107	67-135	
Trichloroethene	mg/kg	.06	0.059	98	67-135	
Vinyl chloride	mg/kg	.06	0.068	115	56-141	
1,2-Dichloroethane-d4 (S)	%			105	70-132	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE SAMPLE: 1685439

Parameter	Units	92289667004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
cis-1,2-Dichloroethene	mg/kg	ND	.023	0.027	119	70-130	
Tetrachloroethene	mg/kg	ND	.023	0.020	90	70-130	
trans-1,2-Dichloroethene	mg/kg	ND	.023	0.028	122	70-130	
Trichloroethene	mg/kg	ND	.023	0.023	101	49-167	
Vinyl chloride	mg/kg	ND	.023	0.029	129	70-130	
1,2-Dichloroethane-d4 (S)	%				112	70-132	
4-Bromofluorobenzene (S)	%				96	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 1685438

Parameter	Units	92289522001 Result	Dup Result	RPD	Max RPD	Qualifiers
cis-1,2-Dichloroethene	mg/kg	ND	ND		30	

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QUALITY CONTROL DATA

Project: JORDAN CLEANERS 60477865

Pace Project No.: 92289614

SAMPLE DUPLICATE: 1685438

Parameter	Units	92289522001 Result	Dup Result	RPD	Max RPD	Qualifiers
Tetrachloroethene	mg/kg	ND	ND		30	
trans-1,2-Dichloroethene	mg/kg	ND	ND		30	
Trichloroethene	mg/kg	ND	ND		30	
Vinyl chloride	mg/kg	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	112	106	9		
4-Bromofluorobenzene (S)	%	96	95	6		
Toluene-d8 (S)	%	101	100	6		

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QUALIFIERS

Project: JORDAN CLEANERS 60477865

Pace Project No.: 92289614

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

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

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

1g The internal standard response is below criteria. No hits associated with this internal standard. Results unaffected by high bias.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: JORDAN CLEANERS 60477865

Pace Project No.: 92289614

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92289614001	MW-1	EPA 8260	MSV/35919		
92289614002	MW-2	EPA 8260	MSV/35919		
92289614003	MW-3	EPA 8260	MSV/35919		
92289614004	MW-4	EPA 8260	MSV/35919		
92289614005	SB-16 (0-1)	EPA 8260	MSV/35915		
92289614006	SB-17 (1-2)	EPA 8260	MSV/35915		
92289614005	SB-16 (0-1)	ASTM D2974-87	PMST/8876		
92289614006	SB-17 (1-2)	ASTM D2974-87	PMST/8876		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt(SCUR)
 Document No.:
F-CHR-CS-003-rev.18

Document Revised: 18FEB2016
 Page 1 of 2
 Issuing Authority:
 Pace Huntersville Quality Office

WO# : 92289614



92289614

Project #

Sample Condition Upon Receipt

Client Name: URS

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags None Other: _____

Thermometer: T1505 1.8 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Correction Factor: 0.0°C Cooler Temp Corrected (°C): _____ Biological Tissue Frozen? Yes No N/A

Temp should be above freezing to -6°C

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

Yes No

		COMMENTS:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes Date/Time/ID/Analysis Matrix: <u>WT/S</u>		
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC,LLHg	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Samples checked for dechlorination	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager SCURF Review: TE

Date: 3/16

Project Manager SRF Review: FE

Date: 3/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers)

ATTACHMENT 24

DISCLAIMER

DISCLAIMER

Data included in this report not generated by or on behalf of URS Corporation – North Carolina (URS) has been taken from documents prepared and submitted to the NC DEQ by Others and is included only for ease of reference; URS does not assume or accept any responsibility or liability for the quality, accuracy, or completeness of the data included that was not generated by or on behalf of URS.