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Revised First Quarter 2016 Groundwater Monitoring Report NuStar Andover Quail Crossing Andover, Kansas

Prepared for:
NuStar Pipeline Operating Partnership L.P.

August 4, 2016
1641-10

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GROUNDWATER MONITORING REPORT

First Quarter 2016

NuStar Pipeline Operating Partnership L.P.

Quail Crossing Neighborhood

Andover, Kansas

Site Name and Location:	Quail Crossing Neighborhood Site	
	West Mountain and North Colt Court	
	Andover, Kansas	
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1.0 Introduction and Site Background

This groundwater monitoring report was prepared by Apex Companies, LLC (Apex) on behalf of NuStar Pipeline Operating Partnership L.P. (NuStar) as part of the continuing response to a gasoline release from a NuStar refined-petroleum pipeline. The activities outlined herein were performed in accordance with the Consent Agreement and Final Order (CAFO) dated May 10, 2013 and in coordination with the Kansas Department of Health and Environment (KDHE) and the Quail Crossing Neighborhood Association. This report summarizes the activities conducted from January 1 through March 31, 2016.

1.1 Background

The pipeline release was discovered in June 2012 after separate-phase hydrocarbons (SPH) were detected in an irrigation well at 2006 N Colt Court, in the Quail Crossing Neighborhood (the Neighborhood) of Andover, Kansas (the Site; Figure 1). As shown on Figure 2, the NuStar pipeline release location was

approximately 80 feet north of the affected irrigation well. Upon the discovery of SPH in the irrigation well, NuStar immediately mobilized to the Site and implemented initial response and abatement activities, including repairs to the pipeline, soil excavation, deactivation of the irrigation well at 2006 N Colt Court, and removal of SPH from the well.

1.2 Pipeline and Site History

Land use at the Site and surrounding areas is residential. As shown on Figure 2, a stormwater retention pond is located near the Site, approximately 250 feet south of the NuStar pipeline. The pipeline is constructed of 8-inch-diameter carbon steel and is used to transport liquefied petroleum products. The pipeline was installed to an approximate depth of 3 feet below ground surface (bgs) in agricultural land in 1959, and the pipeline remained in agricultural and/or undeveloped land until the late 1990s when development of the Quail Crossing Neighborhood began. As part of the Neighborhood development, the pipeline depth was increased to approximately 6 feet bgs by re-excavating and backfilling with native material. A 100-foot-wide pipeline easement was created along the pipeline pathway for safety purposes during Neighborhood development. The pipeline easement limits development activities near the pipeline. The pipeline location and associated easement boundaries are shown on Figure 2.

1.3 Activity Summary

Following the initial response activities, NuStar has performed interim remedial actions and investigations. These have included:

- A Comprehensive Investigation (CI) to determine the nature and extent of separate- and dissolved-phase hydrocarbons at the Site (Apex, 2014a);
- Implementation of a comprehensive groundwater monitoring and SPH removal program to evaluate separate- and dissolved-phase hydrocarbon trends;
- A soil vapor extraction (SVE) pilot test to evaluate this technology for addressing petroleum hydrocarbons in the vadose zone soil;
- Additional soil characterization following the CI to better assess lateral and vertical extent of impacted soil in support of soil excavation planning;
- A groundwater treatment pilot test to evaluate the use of an oxygen releasing compound (ORC) to address dissolved-phase petroleum hydrocarbons in groundwater; and
- A soil excavation to removed petroleum-impacted soil.

The following paragraphs describe each of these activities.

As part of the CI, soil and groundwater data were collected from 24 soil borings, 16 monitoring wells, and select irrigation wells. Information obtained during the CI indicated that residual gasoline constituents are present in soil and groundwater in the vicinity of the pipeline release location.

An SPH removal program was initiated in June 2013 to address SPH in the subsurface, and a quarterly groundwater monitoring program was initiated in August 2013. The current KDHE-approved quarterly groundwater monitoring program consists of gauging water levels in wells MW-1 through MW-19 and SVE-1 through SVE-4, collection and analysis of groundwater samples from wells MW-1 through MW-19 and SVE-2 through SVE-4, and collection and analysis of groundwater monitoring samples from selected irrigation wells. The groundwater monitoring programs for monitoring/pilot test wells and irrigation wells are presented in Tables 1 and 2, respectively.

The SPH program initially consisted of weekly SPH removal and gauging events; a vacuum truck was used to extract groundwater and SPH, if present, from the irrigation well at 2006 N Colt Court during the period June 2013 through January 7, 2015. A modified SPH removal program was approved by KDHE on January 9, 2015 and implemented on January 14, 2015. The modified SPH removal program is described in Section 2.2.

To evaluate the feasibility of SVE technology for mitigating subsurface petroleum hydrocarbons, NuStar performed an SVE pilot test in December 2013 in accordance with the KDHE-approved *Soil Vapor Extraction Pilot Test Work Plan* (Apex, 2013). An evaluation of the SVE pilot test results indicated SVE to be a likely candidate for effective remedial technology on Site. Accordingly, NuStar presented the results of the pilot test and a conceptual SVE system design at a Neighborhood meeting on February 17, 2014. Following the meeting, NuStar submitted the *Soil Vapor Extraction Evaluation and Proposed Soil Investigation Report* in March 2014 (Apex, 2014b). NuStar modified the conceptual design of the SVE system to reflect Neighborhood feedback. Despite proposed modifications to the conceptual SVE design, neighborhood representatives cited a number of reasons for not accepting SVE as a viable mitigation option, including concerns about noise, emissions, and aesthetics.

NuStar implemented a soil investigation in the vicinity of the pipeline release in April 2014 to further define the extent of gasoline in soil and evaluate the potential for implementing other remedial alternatives that may be acceptable to the Neighborhood. Analytical data from that soil investigation were presented in the *Soil Investigation Report and Proposed Soil Excavation Work Plan* (Apex, 2014c), which was approved by KDHE on August 8, 2014. The work plan portion of the report described proposed excavation methods along with a general excavation design for removing vadose-zone soil affected by petroleum constituents. KDHE approved the work plan and requested a detailed excavation construction plan to documents specific methods and materials for the planned excavation. In addition to the standard permit requirement for this type of project, the City of Andover required preparation of detailed survey documents and engineering designs as a condition of permitting the planned excavation. Once the City of Andover regulatory process

was completed and the design plan approved, the *Soil Excavation Work Plan* was submitted to and approved by KDHE in August 2015 (Apex, 2015c). The *Soil Excavation Work Plan* was implemented during the fourth quarter 2015. On January 7, 2016, the *Soil Excavation Results Report* (Apex, 2016a), which provides a detailed description of the excavation activities was submitted to KDHE; that report was approved by KDHE on March 14, 2016.

To evaluate a remedial technology that may be appropriate for treating groundwater at the Site, the *Revised Groundwater Pilot Test Work Plan* (Apex, 2015a) was developed and submitted in January 2015. After evaluating several groundwater technologies, the Work Plan proposed a pilot test to evaluate enhanced aerobic bioremediation using oxygen release compounds (ORC) via injection to the subsurface. KDHE approved the Work Plan on January 26, 2015; ORC injections were performed and pilot test monitoring wells installed during the period of March 10 through 20, 2015. Bi-monthly groundwater monitoring of wells associated with the pilot test was performed during the period March 2015 through February 2016. The methods and interim results of the groundwater pilot test (through June 2015) were reported in the *Revised Interim Groundwater Pilot Test Implementation Report* (Apex, 2015b) which was approved by KDHE on August 26, 2015. The results of the pilot test (through February 2016) were reported in the *Revised Groundwater Pilot Test Report and Expanded Pilot Test Work Plan* (Apex, 2016b) which was approved by KDHE on May 31, 2016.

Since the release was discovered, NuStar has coordinated with property owners within the investigation area to deactivate irrigation wells (ten as of the date of this report), reconfigure the associated irrigation systems to receive municipal water, and reimburse affected property owners for municipal water fees. Irrigation wells were selected for deactivation based on their location within the investigation area, groundwater quality, the potential that pumping on the wells could influence groundwater conditions, and/or well owner concerns. Irrigation wells that have been deactivated are listed in Table 2 and locations are shown on Figure 2. The irrigation wells have not been permanently decommissioned; therefore, the well owners will have the option of reactivating the wells at a later date. In addition, seven Neighborhood irrigation wells were not deactivated because the homeowners wished to maintain use of the well (2007 N Mountain Court and 2009 N Mountain Court) or the wells are located outside the investigation area (1009 W Mountain, 1211 W Quail Crossing Court, 1910 W Quail Crossing Court, HOA-1, and HOA-2). One irrigation well was reactivated on October 1, 2015 (2028 N Ruger Circle), at the request of the homeowner.

2.0 First Quarter 2016 Groundwater Monitoring

First quarter 2016 groundwater and SPH monitoring activities consisted of monthly groundwater gauging and measurement of stormwater pond stage; monthly SPH gauging of the irrigation well at 2006 N Colt Court; and quarterly sampling of 16 monitoring wells (MW-1 through MW-16), five pilot test wells (MW-17 through MW-19 and SVE-2 through SVE-4), and 17 irrigation wells for chemical analyses. The groundwater

monitoring program for monitoring/pilot test wells and irrigation wells are listed on Table 1 and Table 2, respectively.

2.1 Groundwater and Stormwater Pond Elevations

Depth to water was measured at each monitoring well location and at the irrigation well at 2006 N Colt Court on January 14, February 16, and March 21, 2016. Groundwater levels were measured to the nearest 0.01 foot using an electronic water interface probe. Stormwater pond elevations were measured using a staff gauge permanently installed in the pond. Groundwater elevation and stormwater pond surface elevation data are listed in Table 3. The groundwater elevations measured on March 21, 2016 are shown on Figure 3. Copies of field data sheets are included in Appendix A. Historical groundwater and stormwater retention pond elevations for the period August 2013 through March 2016 are tabulated in Appendix B.

During the first quarter 2016 monitoring event, groundwater levels at the Site ranged between approximately 16 and 36 feet bgs (equivalent to 1,316 and 1,332 feet above mean sea level [MSL]). Groundwater levels decreased an average of 0.43 foot relative to the fourth quarter 2015 groundwater monitoring event conducted in December 2015.

The elevation of the stormwater pond surface was 1344.50 feet MSL in January, February and March 2016; during those events, the stormwater pond surface elevation was 0.25 foot lower compared to the fourth quarter 2015 monitoring event (December 2015).

As shown on Figure 3, the groundwater elevations recorded during the first quarter 2016 event exhibited a pattern similar to previous monitoring events at the Site. That is, groundwater elevations were highest in the vicinity of the stormwater retention pond and decreased with distance from the pond. The observed pattern is likely the result of localized groundwater recharge from the stormwater retention pond. The localized recharge results in radial flow of groundwater away from the pond. However, with increasing distance from the pond, groundwater exhibits a more easterly flow component and flatter gradient, consistent with regional patterns (O'Connor et al., 1982). The groundwater elevation at monitoring well MW-2 was inconsistent with groundwater elevations at surrounding wells; accordingly, the elevation at MW-2 was not used for contouring. The exclusion of the groundwater elevation measurement at well MW-2 does not change the interpretation of groundwater flow direction and the radial flow of groundwater away from the pond. Future groundwater elevation measurements at well MW-2 will be used to confirm groundwater gradients. In addition, three new monitoring wells are proposed in the *Groundwater Pilot Test Report and Expanded Pilot Test Work Plan* (Apex, 2016b); water levels in those wells will be used to confirm groundwater gradients at the Site.

2.2 SPH Occurrence

Consistent with the KDHE-approved *Proposed SPH Removal Modification Plan*, an SPH skimmer was installed in the irrigation well at 2006 N Colt Court on February 9, 2015, and gauging and SPH skimmer operations and maintenance (O&M) events have been performed monthly since that time to evaluate the effectiveness of the SPH skimmer in the irrigation well.

The irrigation well at 2006 N Colt Court was gauged for the presence of SPH and to measure depth to water on January 14, February 16, and March 21, 2016. SPH were not detected during these gauging events. Accordingly, SPH removal activities were not necessary during the first quarter 2016 monitoring period, and a groundwater sample was collected from the irrigation well during the March monitoring event. Groundwater elevation data and the estimated volume of SPH removed from the passive skimmer at 2006 N Colt Court for the period March 2015 through March 2016 are listed in Table 4. As shown in Table 4, SPH were last observed in the passive skimmer in March 2015 and have not been observed in the well since that time. Historical data are included in Appendix B.

SPH have not been observed in any monitoring and pilot test wells at the Site, including well MW-1, which is located 30 feet from the irrigation well. With the exception of the irrigation well at 2006 N Colt Court, SPH have not been observed in any irrigation wells at the Site.

2.3 First Quarter 2016 Groundwater Monitoring Event Scope

The first quarter 2016 groundwater monitoring event conducted during the week of March 21, 2016 included the following activities:

- Gauged wells MW-1 through MW-19 and SVE-1 through SVE-4.
- Collected groundwater samples from wells MW-1 through MW-19, SVE-2, and SVE-4.
- Collected groundwater samples from irrigation wells at 17 properties, as shown on Table 2.

Groundwater samples were collected from monitoring and pilot test wells MW-1 through MW-19 using low-flow sampling techniques. KDHE staff collected split samples from monitoring wells MW-1, MW-3, MW-8 and MW-10. Prior to sampling, each monitoring well was purged using a bladder pump while water quality parameters (pH, temperature, specific conductance, dissolved oxygen, and oxidation-reduction potential [ORP]) were recorded (Table 5). Groundwater samples were collected from irrigation wells using disposable bailers. The groundwater samples from SVE-2 and SVE-4 were also collected using disposable bailers because insufficient water was present in those well to collect a sample using low flow techniques; well SVE-3 did not have sufficient water volume to collect a sample. The groundwater analytical data for monitoring and pilot test wells are presented in Section 2.5; and analytical data for irrigation wells are presented in Section 2.6.

2.4 Groundwater Analytical Program

Monitoring and pilot test well groundwater samples collected by Apex staff were submitted to ESC Laboratory Sciences (ESC), a Kansas-accredited analytical laboratory, for the following analyses: low-range hydrocarbons (LRH; carbon range ≥C5 – <C9) by U.S. Environmental Protection Agency (EPA) Method 8015; gasoline-range organics (GRO; ≥C6 – <C12) by EPA Method 8015D/GRO; middle-range hydrocarbons (MRH; carbon range ≥C9 – <C19) by EPA Method 8015M; and volatile organic compounds (VOCs) by EPA Method 8260B. The LRH and MRH analyses are consistent with KDHE Policy # BER-041 *Total Petroleum Hydrocarbons (TPH) and Light Non-Aqueous Phase Liquid (LNAPL) Characterization, Remediation and Management (September 2015);* and GRO analyses were consistent with a request from KDHE. The sample volume collected from well SVE-4 was insufficient to perform LRH, MRH, and GRO analyses; the sample was submitted for only VOCs by EPA Method 8260B. KDHE staff submitted split groundwater samples collected from wells MW-1, MW-3, MW-8, and MW-10 to Pace Analytical Services, a Kansas-accredited analytical laboratory, for the following analyses: LRH by EPA Method 8260; GRO by EPA Method 8260; MRH by EPA Method 8015M; and VOCs by EPA Method 5030B/8260.

2.5 Monitoring and Pilot Test Well Analytical Program and Results

Table 6 presents dissolved-phase petroleum hydrocarbon constituent data for groundwater samples collected from monitoring and pilot test wells between January 2014 and March 2016. Figures 4 and 5 present analytical data for the first quarter 2016 monitoring event. Copies of the laboratory reports and a quality assurance/quality control (QA/QC) results summary are included in Appendix C. The monitoring well groundwater data are discussed below.

Groundwater monitoring conducted since 2013 supports that the extent of dissolved phase hydrocarbon exceeding KDHE Tier 2 RBSVs is stable. Petroleum constituents were not detected or were detected at concentrations lower than KDHE Tier 2 RBSVs in 13 of the 21 monitoring and pilot test wells sampled (MW-4, MW-6 through MW-16, and SVE-2). As presented in the *Revised Groundwater Pilot Test Report and Expanded Pilot Test Work Plan* (Apex, 2016b), significant decreases in dissolved-phase petroleum constituent concentrations were observed in wells near the Release location during the period July 2015 through February 2016. The approximate extent of groundwater with concentrations of dissolved-phase GRO, LRH, MRH, benzene, and naphthalene are shown on Figures 6 through 10, respectively.

Data Quality Evaluation – Monitoring and Pilot Test Well Results. At KDHE's request, the comparability of laboratory analytical methods for LRH, MRH, and GRO were evaluated. As shown on Figure 4, the samples in which LRH and MRH were not detected indicated that GRO was not detected; and samples with LRH and MRH detections exceeding the corresponding KDHE Tier 2 RBSVs contained GRO above the corresponding KDHE Tier 2 RBSV. Accordingly, and as shown on Figures 6 through 8, the nature and extent of dissolved-phase petroleum constituents in groundwater as indicated by LRH and MRH is similar to the extent indicated by GRO.

To evaluate laboratory precision for VOCs, LRH, MRH, and GRO, the results of the KDHE split samples from wells MW-1, MW-3, MW-8 and MW-10 were compared to the corresponding primary samples collected by Apex. This comparison is expressed by the relative percent difference (RPD) between the primary and split samples. In general, the results for KDHE split samples were consistent with the Apex primary samples. In wells MW-8 and MW-10, LRH, MRH, GRO, and VOCs, if detected, were present at concentrations below the corresponding KDHE Tier 2 RBSVs in the primary and split samples. In primary and split samples collected from wells MW-1 and MW-3, dissolved-phase petroleum constituents were detected at concentrations above the corresponding KDHE Tier 2 RBSVs. Constituents were within acceptable RPD limits, with the following exceptions: 1,2,4 trimethylbenzene and benzene in well MW-8; LRH in well MW-10; GRO, 1,2 dichloroethane, 1,3,5 trimethylbenzene, n-butylbenzene, and n-propylbenzene in well MW-1; and 1,2,4 trimethylbenzene, 1,3,5 trimethylbenzene, benzene, and toluene in well MW-3. Accordingly, those data are flagged with a lower case 'j' to identify the results as estimated values.

Based on the Pace Laboratory Analytical Report, the following split sample data are flagged with an upper case 'J' to identify that the result is an estimated concentration above the adjusted method detection limit and below the adjusted reporting limit: LRH, 1,2,4 tremethylbenzene, 1,2 dechloroethane, and benzene for the sample collected from well MW-10; naphthalene for the sample collected from well MW-1; and GRO, 1,3,5 tremethylbenzene, n-butylbenzene, toluene, and naphthalene for the sample collected from well MW-3.

2.6 Irrigation Well Analytical Program and Results

As shown in Table 2, groundwater samples were collected from irrigation wells at 17 properties. Irrigation well analytical data for the first quarter 2016 monitoring event are listed in Table 7 and shown on Figures 4 and 5. Copies of the laboratory reports are included in Appendix C. The irrigation well groundwater data are discussed below:

- During the first quarter 2016 groundwater monitoring event, dissolved-phase hydrocarbon constituents were not detected or contained concentrations of dissolved-phase petroleum constituents below the corresponding KDHE Tier 2 RBSVs in 15 of 17 irrigation wells.
- The groundwater samples collected from two irrigation wells (2005 N Colt Court and 2006 N Colt Court) contained concentrations of dissolved-phase petroleum constituents that exceed the corresponding KDHE Tier 2 RBSVs.
    - The concentrations of LRH, MRH, GRO, benzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, benzene, and naphthalene in the irrigation well at 2005 N Colt Court exceeded the corresponding KDHE Tier 2 RBSVs. The GRO and benzene concentrations were within the range of concentrations observed since sampling began in 2013; however, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and naphthalene

concentrations were higher than the historical range. Quarterly sampling of this well is ongoing to further evaluate dissolved-phase petroleum constituent trends. As shown in Table 2, this irrigation well was deactivated in 2013, and the associated irrigation system was reconfigured to receive municipal water.

- Measureable SPH were generally present in this well (2006 N Colt Court) during the period June 2012 through February 2015; however, SPH have not been observed in this well since February 2015. Groundwater samples were collected during quarterly groundwater monitoring events if SPH were absent. As shown in Table 7, the sample collected in March 2016 contained dissolved-phase concentrations of LRH, MRH, GRO, benzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, ethylbenzene, and naphthalene above the corresponding KDHE Tier 2 RBSVs; however, concentrations of dissolved-phase constituents in the sample were on the lower end of the range observed from that well. As shown in Table 2, this irrigation well was deactivated in 2012 and the irrigation system was reconfigured to receive municipal water.

3.0 Status Report

Work Completed – First Quarter 2016:

The following activities were performed during the first quarter 2016:

- The expanded groundwater monitoring program as shown in Table 1 was implemented during the first quarter 2016 comprehensive groundwater monitoring event.

Work Planned – Second Quarter 2016:

- Performance of the second quarter 2016 comprehensive groundwater monitoring event and groundwater pilot test sampling will be conducted in June. Water samples will be analyzed for LRH, MRH, and VOCs. Consistent with previous KDHE discussions, GRO analysis will be discontinued.
- Consistent with the approved *Revised Fourth Quarter 2015 Groundwater Monitoring Report* (Apex, 2016c), the gauging schedule and SPH monitoring/recovery program will be performed quarterly beginning in June 2016.

4.0 References

Apex Companies, LLC (Apex), 2013. *Soil Vapor Extraction Pilot Test Work Plan. Quail Crossing Neighborhood, Andover, Kansas.* November 15, 2013.

Apex, 2014a. *Comprehensive Investigation Report. Quail Crossing Neighborhood, Andover, Kansas.* April 30, 2014.

Apex, 2014b. *Soil Vapor Extraction Evaluation and Proposed Soil Investigation Report. Quail Crossing Neighborhood, Andover, Kansas.* March 28, 2014.

Apex, 2014c. *Soil Investigation Report and Proposed Soil Excavation Work Plan. Quail Crossing Neighborhood, Andover, Kansas.* July 17, 2014.

Apex, 2015a. *Revised Groundwater Pilot Test Work Plan. Quail Crossing Neighborhood, Andover, Kansas.* January 16, 2015.

Apex, 2015b. *Revised Interim Groundwater Pilot Test Report. Quail Crossing Neighborhood, Andover, Kansas.* October 22, 2015.

Apex, 2015c. *Soil Excavation Work Plan. Quail Crossing Neighborhood, Andover, Kansas.* August 19, 2015.

Apex, 2016a. *Soil Excavation Results Report. Quail Crossing Neighborhood, Andover, Kansas.* March 2, 2016.

Apex, 2016b. *Groundwater Pilot Test Report and Expanded Pilot Test Work Plan. Quail Crossing Neighborhood, Andover, Kansas.* April 15, 2016.

Apex, 2016c. *Revised Fourth Quarter 2015 Groundwater Monitoring Report. Quail Crossing Neighborhood, Andover, Kansas.* April 28, 2016.

O'Connor, Howard G., Chaffee, Pamela, and Link, Martha, 1982. *Geohydrology of Southwestern Butler County, Kansas: A Preliminary Report.* Kansas Geological Survey Open File Report 82-2. May 1982.

Table 1
Groundwater Monitoring Program – Monitoring and Pilot Test Wells
Andover Colt Court Release Site
Andover, Kansas

Well ID	Gauging	LRH and MRH	VOCs
MW-1	Q	Q	Q
MW-2	Q	Q	Q
MW-3	Q	Q	Q
MW-4	Q	Q	Q
MW-5	Q	Q	Q
MW-6	Q	Q	Q
MW-7	Q	Q	Q
MW-8	Q	Q	Q
MW-9	Q	Q	Q
MW-10	Q	Q	Q
MW-11	Q	Q	Q
MW-12	Q	Q	Q
MW-13	Q	Q	Q
MW-14	Q	Q	Q
MW-15	Q	Q	Q
MW-16	Q	Q	Q
MW-17	Q	Q	Q
MW-18	Q	Q	Q
MW-19	Q	Q	Q
SVE-1	Q	--	--
SVE-2	Q	Q	Q
SVE-3	Q	Q	Q
SVE-4	Q	Q	Q

Notes:

1. LRH = Low-range hydrocarbons by U.S. Environmental Protection Agency (EPA) Method 8015.
2. MRH = Mid-range hydrocarbons by EPA Method 8015M.
3. VOCs = Volatile organic compounds; benzene, toluene, ethylbenzene, xylenes [BTEX], 1,2-dicholoethane, naphthalene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, n-butylbenzene, and n-propylbenzene by U.S. Environmental Protection Agency Method 8260B.
4. Q = Performed quarterly.
5. Monitoring wells will not be sampled if SPH are present.

Table 2
Groundwater Monitoring Program – Irrigation Wells
Andover Colt Court Release Site
Andover, Kansas

Well Location	LRH and MRH	VOCs
2001 N Colt Ct	Q	Q
2002 N Colt Ct	Q	Q
2004 N Colt Ct	Q	Q
2005 N Colt Ct	Q	Q
2006 N Colt Ct	Q	Q
HOA-1	Q	Q
2007 N Colt Ct	Q	Q
2019 N Ruger Cir	Q	Q
2020 N Ruger Cir	Q	Q
2028 N Ruger Cir	Q	Q
2032 N Ruger Cir	Q	Q
2021 N Ruger Ct	Q	Q
2025 N Ruger Ct	Q	Q
1009 W Mountain	Q	Q
2007 N Mountain Ct	Q	Q
2009 N Mountain Ct	Q	Q
1211 W Quail Crossing Ct	Q	Q

Notes:

1. LRH = Low-range hydrocarbons by U.S. Environmental Protection Agency (EPA) Method 8015.
2. MRH = Mid-range hydrocarbons by EPA Method 8015M.
3. VOCs = Volatile organic compounds; benzene, toluene, ethylbenzene, [BTEX], 1,2-dicholoethane, naphthalene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, n-butylbenzene, and n-propylbenzene by U.S. Environmental Protection Agency Method 8260B.
4. Q = Performed quarterly.
5. Well locations are shown on Figure 2.
6. Irrigation wells will not be sampled if SPH are present.

Table 3
Groundwater Gauging Data – Monitoring and Pilot Test Wells
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
MW-1	1/7/2015					31.75	–	–	1320.38
	1/14/2015					31.44	–	–	1320.69
	1/20/2015					31.45	–	–	1320.68
	1/28/2015					31.42	–	–	1320.71
	2/4/2015					31.44	–	–	1320.69
	2/9/2015					31.62	–	–	1320.51
	2/18/2015					NM	–	–	NM
	2/25/2015					NM	–	–	NM
	3/4/2015					NM	–	–	NM
	3/11/2015					NM	–	–	NM
	3/20/2015					31.38	–	–	1320.75
	3/25/2015					NM	–	–	NM
	4/20/2015	4.0	1352.13	35.0	20-35	31.39	–	–	1320.74
	6/10/2015					31.23	–	–	1320.90
	6/15/2015					31.31	–	–	1320.82
	7/22/2015					31.29	–	–	1320.84
	8/20/2015					31.35	–	–	1320.78
	9/14/2015					31.35	–	–	1320.78
	10/20/2015					31.32	–	–	1320.81
	11/24/2015					31.35	–	–	1320.78
	12/14/2015					31.21	–	–	1320.92
	1/13/2016					31.19	–	–	1320.94
	2/16/2016					31.34	–	–	1320.79
	3/21/2016					31.34	–	–	1320.79
MW-2	1/7/2015					NM	–	–	NM
	1/14/2015					32.90	–	–	1320.27
	1/20/2015					32.93	–	–	1320.24
	1/28/2015					32.89	–	–	1320.28
	2/4/2015					32.92	–	–	1320.25
	2/9/2015					33.15	–	–	1320.02
	2/18/2015					NM	–	–	NM
	2/25/2015					NM	–	–	NM
	3/4/2015					NM	–	–	NM
	3/11/2015					NM	–	–	NM
	3/18/2015					32.87	–	–	1320.30
	3/25/2015					NM	–	–	NM
	4/20/2015	2.0	1353.17	44.0	29-44	36.43	–	–	1316.74
	6/10/2015					NM	–	–	NM
	6/15/2015					34.83	–	–	1318.34
	7/22/2015					35.13	–	–	1318.04
	8/20/2015					36.21	–	–	1316.96
	9/14/2015					35.87	–	–	1317.30
	10/20/2015					36.23	–	–	1316.94
	11/24/2015					35.81	–	–	1317.36
	12/14/2015					34.08	–	–	1319.09
	1/13/2016					32.73	–	–	1320.44
	2/16/2016					32.69	–	–	1320.48
	3/21/2016					33.89	–	–	1319.28
MW-3	1/7/2015					NM	–	–	NM
	1/14/2015					41.35	–	–	1309.12
	1/20/2015					41.36	–	–	1309.11
	1/28/2015					42.22	–	–	1308.25
	2/4/2015					41.12	–	–	1309.35
	2/9/2015					40.60	–	–	1309.87
	2/18/2015					NM	–	–	NM
	2/25/2015					NM	–	–	NM
	3/4/2015					NM	–	–	NM
	3/11/2015					NM	–	–	NM
	3/18/2015					41.02	–	–	1309.45
	3/25/2015					NM	–	–	NM
	4/20/2015	2.0	1350.47	60.0	40-60	45.61	–	–	1304.86
	6/10/2015					NM	–	–	NM
	6/15/2015					38.21	–	–	1312.26
	7/22/2015					39.69	–	–	1310.78
	8/20/2015					44.40	–	–	1306.07
	9/14/2015					43.33	–	–	1307.14
	10/20/2015					45.10	–	–	1305.37
	11/24/2015					39.69	–	–	1310.78
	12/14/2015					35.42	–	–	1315.05
	1/13/2016					32.61	–	–	1317.86
	2/16/2016					23.13	–	–	1327.34
	3/21/2016					34.17	–	–	1316.30

Please refer to notes at end of table.

Table 3
Groundwater Gauging Data – Monitoring and Pilot Test Wells
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
MW-4	1/7/2015					NM	--	--	NM
	1/14/2015					31.52	--	--	1319.21
	1/20/2015					31.55	--	--	1319.18
	1/28/2015					31.66	--	--	1319.07
	2/4/2015					31.70	--	--	1319.03
	2/9/2015					31.75	--	--	1318.98
	2/18/2015					NM	--	--	NM
	2/25/2015					NM	--	--	NM
	3/4/2015					NM	--	--	NM
	3/11/2015					NM	--	--	NM
	3/18/2015					31.22	--	--	1319.51
	3/25/2015					NM	--	--	NM
	4/20/2015	2.0	1350.73	41.0	26-41	34.10	--	--	1316.63
	6/10/2015					29.28	--	--	1321.45
	6/15/2015					29.02	--	--	1321.71
	7/22/2015					29.55	--	--	1321.18
	8/20/2015					29.65	--	--	1321.08
	9/14/2015					29.60	--	--	1321.13
	10/20/2015					30.31	--	--	1320.42
	11/24/2015					30.37	--	--	1320.36
	12/14/2015					29.69	--	--	1321.04
	1/13/2016					29.95	--	--	1320.78
	2/16/2016					30.16	--	--	1320.57
	3/21/2016					30.29	--	--	1320.44
MW-5	1/7/2015					NM	--	--	NM
	1/14/2015					20.56	--	--	1332.21
	1/20/2015					20.55	--	--	1332.22
	1/28/2015					20.58	--	--	1332.19
	2/4/2015					20.69	--	--	1332.08
	2/9/2015					20.58	--	--	1332.19
	2/18/2015					NM	--	--	NM
	2/25/2015					NM	--	--	NM
	3/4/2015					NM	--	--	NM
	3/11/2015					NM	--	--	NM
	3/18/2015					20.80	--	--	1331.97
	3/25/2015					NM	--	--	NM
	4/20/2015	2.0	1352.77	30.0	15-30	21.01	--	--	1331.76
	6/10/2015					19.44	--	--	1333.33
	6/15/2015					19.60	--	--	1333.17
	7/22/2015					19.82	--	--	1332.95
	8/20/2015					19.97	--	--	1332.80
	9/14/2015					20.06	--	--	1332.71
	10/20/2015					20.24	--	--	1332.53
	11/24/2015					20.40	--	--	1332.37
	12/14/2015					19.82	--	--	1332.95
	1/13/2016					19.95	--	--	1332.82
	2/16/2016					20.49	--	--	1332.28
	3/21/2016					21.05	--	--	1331.72
MW-6	1/7/2015					NM	--	--	NM
	1/14/2015					22.59	--	--	1327.17
	1/20/2015					22.45	--	--	1327.31
	1/28/2015					22.54	--	--	1327.22
	2/4/2015					22.59	--	--	1327.17
	2/9/2015					22.77	--	--	1326.99
	2/18/2015					NM	--	--	NM
	2/25/2015					NM	--	--	NM
	3/4/2015					NM	--	--	NM
	3/11/2015					NM	--	--	NM
	3/18/2015					22.62	--	--	1327.14
	3/25/2015					NM	--	--	NM
	4/20/2015	2.0	1349.76	41.0	26-41	23.05	--	--	1326.71
	6/10/2015					NM	--	--	NM
	6/15/2015					20.45	--	--	1329.31
	7/22/2015					20.66	--	--	1329.10
	8/20/2015					20.73	--	--	1329.03
	9/14/2015					20.48	--	--	1329.28
	10/20/2015					21.11	--	--	1328.65
	11/24/2015					22.17	--	--	1327.59
	12/14/2015					20.57	--	--	1329.19
	1/13/2016					20.51	--	--	1329.25
	2/16/2016					21.49	--	--	1328.27
	3/21/2016					22.22	--	--	1327.54

Please refer to notes at end of table.

Table 3
Groundwater Gauging Data – Monitoring and Pilot Test Wells
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
MW-7	1/7/2015					NM	–	–	NM
	1/14/2015					16.49	–	–	1332.49
	1/20/2015					16.55	–	–	1332.43
	1/28/2015					16.56	–	–	1332.42
	2/4/2015					16.56	–	–	1332.42
	2/9/2015					16.58	–	–	1332.40
	2/18/2015					NM	–	–	NM
	2/25/2015					NM	–	–	NM
	3/4/2015					NM	–	–	NM
	3/11/2015					NM	–	–	NM
	3/18/2015					16.63	–	–	1332.35
	3/25/2015					NM	–	–	NM
	4/20/2015	2.0	1348.98	24.0	9-24	16.10	–	–	1332.88
	6/10/2015					NM	–	–	NM
	6/15/2015					14.91	–	–	1334.07
	7/22/2015					15.61	–	–	1333.37
	8/20/2015					15.70	–	–	1333.28
	9/14/2015					15.55	–	–	1333.43
	10/20/2015					16.07	–	–	1332.91
	11/24/2015					16.29	–	–	1332.69
	12/14/2015					15.56	–	–	1333.42
	1/13/2016					15.75	–	–	1333.23
	2/16/2016					16.51	–	–	1332.47
	3/21/2016					16.65	–	–	1332.33
MW-8	1/7/2015					NM	–	–	NM
	1/14/2015					21.64	–	–	1331.74
	1/20/2015					21.70	–	–	1331.68
	1/28/2015					21.72	–	–	1331.66
	2/4/2015					21.92	–	–	1331.46
	2/9/2015					21.88	–	–	1331.50
	2/18/2015					NM	–	–	NM
	2/25/2015					NM	–	–	NM
	3/4/2015					NM	–	–	NM
	3/11/2015					NM	–	–	NM
	3/18/2015					21.96	–	–	1331.42
	3/25/2015					NM	–	–	NM
	4/20/2015	2.0	1353.38	30.0	15-30	22.25	–	–	1331.13
	6/10/2015					NM	–	–	NM
	6/15/2015					19.93	–	–	1333.45
	7/22/2015					20.20	–	–	1333.18
	8/20/2015					20.64	–	–	1332.74
	9/14/2015					20.68	–	–	1332.70
	10/20/2015					21.08	–	–	1332.30
	11/24/2015					21.61	–	–	1331.77
	12/14/2015					20.41	–	–	1332.97
	1/13/2016					20.53	–	–	1332.85
	2/16/2016					21.26	–	–	1332.12
	3/21/2016					22.04	–	–	1331.34
MW-9	1/7/2015					NM	–	–	NM
	1/14/2015					NM	–	–	NM
	1/20/2015					NM	–	–	NM
	1/28/2015					31.81	–	–	1317.67
	2/4/2015					31.90	–	–	1317.58
	2/9/2015					31.78	–	–	1317.70
	2/18/2015					NM	–	–	NM
	2/25/2015					NM	–	–	NM
	3/4/2015					NM	–	–	NM
	3/11/2015					NM	–	–	NM
	3/18/2015					31.59	–	–	1317.89
	3/25/2015					NM	–	–	NM
	4/20/2015	2.0	1349.48	34.0	19-34	33.25	–	–	1316.23
	6/10/2015					NM	–	–	NM
	6/15/2015					29.83	–	–	1319.65
	7/22/2015					28.87	–	–	1320.61
	8/20/2015					28.41	–	–	1321.07
	9/14/2015					30.24	–	–	1319.24
	10/20/2015					31.07	–	–	1318.41
	11/24/2015					30.87	–	–	1318.61
	12/14/2015					29.22	–	–	1320.26
	1/13/2016					28.32	–	–	1321.16
	2/16/2016					28.32	–	–	1321.16
	3/21/2016					29.66	–	–	1319.82

Please refer to notes at end of table.

Table 3
Groundwater Gauging Data – Monitoring and Pilot Test Wells
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
MW-10	1/7/2015					NM	--	--	NM
	1/14/2015					28.45	--	--	1320.34
	1/20/2015					28.42	--	--	1320.37
	1/28/2015					28.44	--	--	1320.35
	2/4/2015					28.49	--	--	1320.30
	2/9/2015					28.54	--	--	1320.25
	2/18/2015					NM	--	--	NM
	2/25/2015					NM	--	--	NM
	3/4/2015					NM	--	--	NM
	3/11/2015					NM	--	--	NM
	3/18/2015					28.42	--	--	1320.37
	3/25/2015					NM	--	--	NM
	4/20/2015	2.0	1348.79	34.0	19-34	28.53	--	--	1320.26
	6/10/2015					NM	--	--	NM
	6/15/2015					28.30	--	--	1320.49
	7/22/2015					29.56	--	--	1319.23
	8/20/2015					30.49	--	--	1318.30
	9/14/2015					28.40	--	--	1320.39
	10/20/2015					28.39	--	--	1320.40
	11/24/2015					28.40	--	--	1320.39
	12/14/2015					28.36	--	--	1320.43
	1/13/2016					27.04	--	--	1321.75
	2/16/2016					26.97	--	--	1321.82
	3/21/2016					28.43	--	--	1320.36
MW-11	1/7/2015					NM	--	--	NM
	1/14/2015					28.88	--	--	1322.46
	1/20/2015					28.88	--	--	1322.46
	1/28/2015					28.97	--	--	1322.37
	2/4/2015					28.94	--	--	1322.40
	2/9/2015					29.26	--	--	1322.08
	2/18/2015					NM	--	--	NM
	2/25/2015					NM	--	--	NM
	3/4/2015					NM	--	--	NM
	3/11/2015					NM	--	--	NM
	3/19/2015					29.84	--	--	1321.50
	3/25/2015					NM	--	--	NM
	4/20/2015	2.0	1351.34	42.0	22-42	30.39	--	--	1320.95
	6/10/2015					NM	--	--	NM
	6/15/2015					28.31	--	--	1323.03
	7/22/2015					28.66	--	--	1322.68
	8/20/2015					28.73	--	--	1322.61
	9/14/2015					28.82	--	--	1322.52
	10/20/2015					28.62	--	--	1322.72
	11/24/2015					28.76	--	--	1322.58
	12/14/2015					28.64	--	--	1322.70
	1/13/2016					28.51	--	--	1322.83
	2/16/2016					28.97	--	--	1322.37
	3/21/2016					28.87	--	--	1322.47
MW-12	1/7/2015					NM	--	--	NM
	1/14/2015					NM	--	--	NM
	1/20/2015					31.04	--	--	1318.70
	1/28/2015					31.05	--	--	1318.69
	2/4/2015					31.07	--	--	1318.67
	2/9/2015					31.06	--	--	1318.68
	2/18/2015					NM	--	--	NM
	2/25/2015					NM	--	--	NM
	3/4/2015					NM	--	--	NM
	3/11/2015					NM	--	--	NM
	3/18/2015					30.95	--	--	1318.79
	3/25/2015					NM	--	--	NM
	4/20/2015	2.0	1349.74	43.0	23-43	31.09	--	--	1318.65
	6/10/2015					NM	--	--	NM
	6/15/2015					30.86	--	--	1318.88
	7/22/2015					30.98	--	--	1318.76
	8/20/2015					31.08	--	--	1318.66
	9/14/2015					31.09	--	--	1318.65
	10/20/2015					31.09	--	--	1318.65
	11/24/2015					31.09	--	--	1318.65
	12/14/2015					30.51	--	--	1319.23
	1/13/2016					28.00	--	--	1321.74
	2/16/2016					27.92	--	--	1321.82
	3/21/2016					30.36	--	--	1319.38

Please refer to notes at end of table.

Table 3
Groundwater Gauging Data – Monitoring and Pilot Test Wells
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
MW-13	1/7/2015					NM	--	--	NM
	1/14/2015					33.06	--	--	1321.52
	1/20/2015					32.93	--	--	1321.65
	1/28/2015					32.85	--	--	1321.73
	2/4/2015					33.07	--	--	1321.51
	2/9/2015					32.81	--	--	1321.77
	2/18/2015					NM	--	--	NM
	2/25/2015					NM	--	--	NM
	3/4/2015					NM	--	--	NM
	3/11/2015					NM	--	--	NM
	3/18/2015					33.16	--	--	1321.42
	3/25/2015					NM	--	--	NM
	4/20/2015	2.0	1354.58	45.0	25-45	33.34	--	--	1321.24
	6/10/2015					NM	--	--	NM
	6/15/2015					31.94	--	--	1322.64
	7/22/2015					31.77	--	--	1322.81
	8/20/2015					31.56	--	--	1323.02
	9/14/2015					31.41	--	--	1323.17
	10/20/2015					31.83	--	--	1322.75
	11/24/2015					32.18	--	--	1322.40
	12/14/2015					31.98	--	--	1322.60
	1/13/2016					31.41	--	--	1323.17
	2/16/2016					31.49	--	--	1323.09
	3/21/2016					31.92	--	--	1322.66
MW-14	1/7/2015					NM	--	--	NM
	1/14/2015					33.51	--	--	1321.48
	1/20/2015					33.59	--	--	1321.40
	1/28/2015					33.65	--	--	1321.34
	2/4/2015					33.88	--	--	1321.11
	2/9/2015					34.00	--	--	1320.99
	2/18/2015					NM	--	--	NM
	2/25/2015					NM	--	--	NM
	3/4/2015					NM	--	--	NM
	3/11/2015					NM	--	--	NM
	3/18/2015					33.94	--	--	1321.05
	3/25/2015					NM	--	--	NM
	4/20/2015	2.0	1354.99	45.0	25-45	34.93	--	--	1320.06
	6/10/2015					NM	--	--	'NM
	6/15/2015					31.70	--	--	1323.29
	7/22/2015					31.62	--	--	1323.37
	8/20/2015					31.55	--	--	1323.44
	9/14/2015					31.38	--	--	1323.61
	10/20/2015					31.92	--	--	1323.07
	11/24/2015					32.20	--	--	1322.79
	12/14/2015					31.74	--	--	1323.25
	1/13/2016					31.53	--	--	1323.46
	2/16/2016					31.78	--	--	1323.21
	3/21/2016					32.20	--	--	1322.79
MW-15	1/7/2015					NM	--	--	NM
	1/14/2015					NM	--	--	NM
	1/20/2015					34.93	--	--	1316.86
	1/28/2015					34.98	--	--	1316.81
	2/4/2015					35.12	--	--	1316.67
	2/9/2015					35.02	--	--	1316.77
	2/18/2015					NM	--	--	NM
	2/25/2015					NM	--	--	NM
	3/4/2015					NM	--	--	NM
	3/11/2015					NM	--	--	NM
	3/18/2015					35.04	--	--	1316.75
	3/25/2015					NM	--	--	NM
	4/20/2015	2.0	1351.79	45.0	25-45	36.50	--	--	1315.29
	6/10/2015					NM	--	--	'NM
	6/15/2015					32.34	--	--	1319.45
	7/22/2015					32.94	--	--	1318.85
	8/20/2015					33.48	--	--	1318.31
	9/14/2015					33.05	--	--	1318.74
	10/20/2015					33.63	--	--	1318.16
	11/24/2015					33.33	--	--	1318.46
	12/14/2015					31.47	--	--	1320.32
	1/13/2016					31.10	--	--	1320.69
	2/16/2016					29.81	--	--	1321.98
	3/21/2016					31.22	--	--	1320.57

Please refer to notes at end of table.

Table 3
Groundwater Gauging Data – Monitoring and Pilot Test Wells
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
MW-16	1/7/2015					NM	--	--	NM
	1/14/2015					NM	--	--	NM
	1/20/2015					30.71	--	--	1321.42
	1/28/2015					20.13	--	--	1332.00
	2/4/2015					30.76	--	--	1321.37
	2/9/2015					31.09	--	--	1321.04
	2/18/2015					NM	--	--	NM
	2/25/2015					NM	--	--	NM
	3/4/2015					NM	--	--	NM
	3/11/2015					NM	--	--	NM
	3/18/2015					31.80	--	--	1320.33
	3/25/2015					NM	--	--	NM
	4/20/2015	2.0	1352.13	45.0	25-45	33.03	--	--	1319.10
	6/10/2015					NM	--	--	NM
	6/15/2015					29.48	--	--	1322.65
	7/22/2015					29.13	--	--	1323.00
	8/20/2015					28.65	--	--	1323.48
	9/14/2015					28.49	--	--	1323.64
	10/20/2015					28.90	--	--	1323.23
	11/24/2015					29.15	--	--	1322.98
	12/14/2015					27.88	--	--	1324.25
	1/13/2016					28.29	--	--	1323.84
	2/16/2016					28.64	--	--	1323.49
	3/21/2016					29.33	--	--	1322.80
MW-17	3/18/2015					NM	--	--	NM
	4/20/2015					33.91	--	--	1317.78
	6/10/2015					31.15	--	--	1320.54
	6/15/2015					31.28	--	--	1320.41
	7/22/2015					NM	--	--	NM
	8/20/2015					31.19	--	--	1320.50
	9/14/2015	2.0	1351.69	42	27-42	30.99	--	--	1320.70
	10/20/2015					32.57	--	--	1319.12
	11/24/2015					32.65	--	--	1319.04
	12/14/2015					32.00	--	--	1319.69
	1/13/2016					31.37	--	--	1320.32
	2/16/2016					31.46	--	--	1320.23
	3/21/2016					32.03	--	--	1319.66
MW-18	3/18/2015					27.93	--	--	1323.18
	4/20/2015					33.51	--	--	1317.60
	6/10/2015					30.50	--	--	1320.61
	6/15/2015		1351.11			30.64	--	--	1320.47
	7/22/2015					30.84	--	--	1320.27
	8/20/2015					30.81	--	--	1320.30
	9/14/2015	2.0		42	27-42	30.53	--	--	1320.58
MW-18	11/24/2015					30.99	--	--	1320.05
	12/14/2015					30.96	--	--	1320.08
	1/13/2016		1351.04			30.56	--	--	1320.48
	2/16/2016					30.72	--	--	1320.32
	3/21/2016					30.82	--	--	1320.22
MW-19	3/18/2015					35.19	--	--	1315.94
	4/20/2015					33.70	--	--	1317.43
	6/10/2015					30.24	--	--	1320.89
	6/15/2015		1351.13			30.60	--	--	1320.53
	7/22/2015					30.58	--	--	1320.55
	8/20/2015					30.65	--	--	1320.48
	9/14/2015	2.0		42	27-42	30.59	--	--	1320.54
	11/24/2015					31.00	--	--	1320.13
	12/14/2015					31.06	--	--	1319.94
MW-19	1/13/2016		1351.00			30.47	--	--	1320.53
	2/16/2016					30.69	--	--	1320.31
	3/21/2016					30.79	--	--	1320.21
	10/20/2015					NM	--	--	NM
	11/24/2015					27.05	--	--	1323.18
SVE-1	12/14/2015	2.0	1350.23	30	20-30	26.11	--	--	1324.12
	1/13/2016					26.11	--	--	1324.12
	2/16/2016					26.71	--	--	1323.52
	3/21/2016					26.83	--	--	1323.40

Please refer to notes at end of table.

Table 3
Groundwater Gauging Data – Monitoring and Pilot Test Wells
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
SVE-2	10/20/2015	2.0	1350.21	30	15-30	NM	–	–	NM
	11/24/2015					28.17	–	–	1322.04
	12/14/2015					26.92	–	–	1323.29
	1/13/2016					26.95	–	–	1323.26
	2/16/2016					27.97	–	–	1322.24
	3/21/2016					28.22	–	–	1321.99
SVE-3	10/20/2015	2.0	1351.82	30	20-30	NM	–	–	NM
	11/24/2015					29.36	–	–	1322.46
	12/14/2015					29.22	–	–	1322.60
	1/13/2016					29.25	–	–	1322.57
	2/16/2016					29.31	–	–	1322.51
	3/21/2016					29.35	–	–	1322.47
SVE-4	10/20/2015	2.0	1350.31	30	20-30	NM	–	–	NM
	11/24/2015					28.55	–	–	1321.76
	12/14/2015					29.04	–	–	1321.27
	1/13/2016					29.04	–	–	1321.27
	2/16/2016					29.01	–	–	1321.30
	3/21/2016					29.02	–	–	1321.29
Stormwater Pond (Pond Stage [feet MSL])	1/7/2015	NA	NA	NA	NA	NA	NA	NA	NM
	1/14/2015								NM
	1/20/2015								1344.00
	1/28/2015								1343.80
	2/4/2015								1344.15
	2/9/2015								1344.10
	2/18/2015								NM
	2/25/2015								NM
	3/4/2015								NM
	3/11/2015								NM
	3/18/2015								1343.60
	3/25/2015								NM
	4/20/2015								1344.75
	6/10/2015								1344.50
	6/15/2015								1344.75
	7/22/2015								1344.50
	8/20/2015								1344.75
	9/14/2015								1344.50
	10/22/2015								1344.75
	11/24/2015								1344.50
	12/14/2015								1344.75
	1/13/2016								1344.50
	2/16/2016								1344.50
	3/21/2016								1344.50

Notes:

1. feet MSL = Feet above mean sea level (NAVD88).
2. – = No SPH
3. NM = Not measured.
4. Pond elevation is measured directly from a staff gauge in the pond (in 0.25-foot increments). The top of the staff gauge is 1347.59 feet above mean sea level.
5. NA = Not applicable.
6. Monitoring wells MW-18 and MW-19 were resurveyed on November 24, 2015.

Table 4
Separate-Phase Recovery Data – March 2015 through March 2016
Andover Colt Court Release Site
Andover, Kansas

Date	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	Product Thickness (feet)	Minimum SPH Recovered (gallons)	Total Fluids Recovered (SPH and Water; gallons)	SPH Thickness After Removal Event	Fluid Removal Technology
3/18/2015	45.55	--	--	0.3	0.3	0.00	SPH Skimmer
6/10/2015	45.43	--	--	0.0	0.0	0.00	SPH Skimmer
6/15/2015	42.38	--	--	0.0	0.0	0.00	SPH Skimmer
7/22/2015	47.66	--	--	0.0	0.0	0.00	SPH Skimmer
8/20/2015	46.98	--	--	0.0	0.0	0.00	SPH Skimmer
9/14/2015	49.56	--	--	0.0	0.0	0.00	SPH Skimmer
10/20/2015	47.56	--	--	0.0	0.0	0.00	SPH Skimmer
11/24/2015	48.66	--	--	0.0	0.0	0.00	SPH Skimmer
12/14/2015	46.98	--	--	0.0	0.0	0.00	SPH Skimmer
1/13/2016	37.27	--	--	0.0	0.0	0.00	SPH Skimmer
2/16/2016	36.89	--	--	0.0	0.0	0.00	SPH Skimmer
3/21/2016	37.03	--	--	0.0	0.0	0.00	SPH Skimmer
			Total Fluids Recovered	**0.3**	**0**		

Notes:

1. SPH = Separate-phase hydrocarbons.
2. The SPH volume removed using vacuum technology was calculated by measuring the SPH thicknesses in the well before and after each event and estimating the volume of SPH in the corresponding gravel pack interval.
3. -- = No SPH.

Table 5
Groundwater Parameters
Andover Colt Court Release Site
Andover, Kansas

Sample Location	Sample Date	Temperature (°C)	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm)	pH	ORP
MW-1	1/30/2014	15.79	0.00	1,060	7.25	-52
	4/9/2014	19.22	5.52	979	6.98	-130
	7/23/2014	19.98	5.35	1,251	7.49	-110
	10/29/2014	15.81	3.21	1,369	6.97	-60
	2/12/2015	11.33	1.43	1,250	6.77	-57
	6/16/2015	16.50	0.95	1,311	7.01	-52
	8/20/2015	17.22	0.88	1,348	6.98	-77
	9/15/2015	17.67	4.39	1,365	6.94	-51
	12/16/2015	13.26	0.19	1,453	6.90	-154
	3/23/2016	16.75	6.60	1,522	7.36	-74
MW-2	1/30/2014	15.50	0.00	843	6.22	99
	4/8/2014	15.29	4.05	752	6.77	7
	7/22/2014	21.74	4.79	852	4.79	55
	10/30/2014	19.07	4.87	813	7.21	130
	2/10/2015	14.90	3.16	816	5.77	129
	6/16/2015	18.89	2.75	805	7.28	40
	9/16/2015	18.92	2.66	715	6.87	129
	12/15/2015	16.45	2.96	797	7.20	73
	3/21/2016	16.82	3.99	808	7.28	127
MW-3	1/30/2014	11.91	0.00	853	4.05	18
	4/8/2014	17.25	8.41	740	6.96	-11
	7/24/2014	25.79	2.89	971	7.18	-95
	10/30/2014	18.47	0.96	901	7.07	-236
	2/10/2015	16.27	0.93	940	6.68	-85
	6/17/2015	18.87	0.46	947	7.04	-83
	9/15/2015	19.61	0.89	852	6.82	-110
	12/15/2015	15.44	0.20	925	6.98	-119
	3/23/2016	16.53	4.83	807	7.34	-94
MW-4	1/30/2014	14.01	2.78	1,130	5.46	158
	4/9/2014	14.99	2.54	968	6.95	132
	7/24/2014	20.53	0.57	1,135	7.24	-9
	10/30/2014	16.98	0.54	1,083	7.03	-146
	2/10/2015	16.62	1.07	1,044	6.54	-48
	6/16/2015	19.74	3.82	1,101	7.24	26
	8/20/2015	19.86	3.95	1,136	6.98	43
	9/16/2015	20.16	7.34	1,044	7.28	74
	12/15/2015	16.75	4.60	1,011	7.14	76
	3/22/2016	17.21	3.69	1,722	7.15	50
MW-5	1/30/2014	15.57	0.00	1,300	6.96	57
	4/8/2014	15.99	1.09	1,190	6.92	189
	7/23/2014	20.70	2.28	1,458	7.17	64
	10/29/2014	19.39	0.49	1,453	6.98	127
	2/10/2015	15.98	1.38	1,444	6.47	93
	6/16/2015	17.90	1.49	1,429	6.96	149
	8/20/2015	18.95	1.51	1,464	7.23	0
	9/16/2015	19.17	1.63	1,310	6.94	107
	12/15/2015	15.34	1.88	1,420	7.00	107
	3/22/2016	17.64	0.82	1,378	7.11	35

Please refer to notes at end of table.

Table 5
Groundwater Parameters
Andover Colt Court Release Site
Andover, Kansas

Sample Location	Sample Date	Temperature (°C)	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm)	pH	ORP
MW- 6	1/30/2014	15.54	0.63	986	7.11	146
	4/9/2014	16.58	9.16	797	7.00	201
	7/24/2014	19.56	5.64	1,303	7.27	17
	10/29/2014	18.08	4.29	1,137	7.09	160
	2/11/2015	13.07	4.06	893	6.91	100
	6/17/2015	17.60	3.88	1,280	7.15	15
	9/15/2015	18.01	1.29	431	7.13	-34
	10/22/2015	16.60	5.71	1,171	7.22	333
	12/16/2015	14.00	1.71	336	7.26	148
	3/22/2016	15.90	4.00	863	7.31	117
MW-7	1/30/2014	16.13	0.00	667	7.21	-37
	4/9/2014	15.78	9.43	566	7.08	23
	7/24/2014	18.24	0.66	740	7.38	-11
	10/29/2014	17.47	0.22	754	7.25	-33
	2/11/2015	15.25	0.80	662	6.93	18
	6/17/2015	17.16	0.60	868	7.27	-31
	9/15/2015	18.00	0.37	671	7.12	-32
	10/22/2015	16.99	0.42	769	7.32	-12
	12/16/2015	15.47	7.16	865	0.70	-163
	3/22/2016	15.67	0.52	752	7.43	127
MW-8	1/30/2014	16.94	1.56	1,120	7.00	109
	4/8/2014	16.42	9.18	976	6.80	170
	7/22/2014	19.71	4.88	1,156	7.27	70
	10/29/2014	20.01	3.92	1,051	7.19	138
	2/10/2015	16.90	2.66	1,178	6.44	100
	6/17/2015	19.26	3.16	1,209	7.18	110
	9/16/2015	19.29	3.47	1,033	6.97	131
	12/15/2015	16.59	3.12	1,138	7.13	91
	3/23/2016	17.60	3.40	1,184	7.23	-2
MW-9	1/30/2014	12.13	0.00	760	4.50	8
	4/8/2014	16.65	4.05	725	7.07	192
	7/24/2014	23.24	3.59	1,080	7.11	48
	10/30/2014	16.72	5.61	977	7.08	98
	2/11/2015	15.06	3.13	884	7.05	91
	6/16/2015	19.40	0.67	1,247	7.16	61
	9/15/2015	20.43	0.98	990	6.83	43
	10/22/2015	17.86	1.40	1,043	7.11	136
	12/15/2015	16.73	4.35	1,259	7.17	54
	3/22/2016	16.00	1.78	1,070	7.15	147
MW-10	1/30/2014	14.31	0.00	1,340	4.90	-44
	4/8/2014	17.01	0.18	982	6.79	-105
	8/1/2014	21.23	9.61	1,236	7.59	77
	10/29/2014	19.71	1.80	1,302	6.90	88
	2/11/2015	13.84	1.67	984	6.88	99
	6/16/2015	19.13	0.55	1,439	7.28	47
	9/15/2015	21.36	1.48	1,348	6.84	56
	10/22/2015	17.55	0.51	1,262	7.01	154
	12/15/2015	16.80	0.67	1,431	6.81	75
	1/13/2016	16.64	0.36	1,445	6.87	68
	3/23/2016	17.02	0.31	1,234	6.98	45

Please refer to notes at end of table.

Table 5
Groundwater Parameters
Andover Colt Court Release Site
Andover, Kansas

Sample Location	Sample Date	Temperature (°C)	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm)	pH	ORP
MW-11	1/30/2014	16.22	6.91	1,320	6.54	185
	4/8/2014	16.61	6.09	1,140	7.05	199
	7/23/2014	20.17	2.45	1,438	7.24	100
	10/30/2014	18.55	4.02	1,404	7.11	91
	2/10/2015	16.66	4.01	1,314	6.61	72
	6/17/2015	18.94	1.78	1,463	7.12	120
	9/16/2015	20.67	3.16	1,339	6.92	93
	12/15/2015	16.71	2.20	1,452	6.95	81
	3/21/2016	17.19	3.98	1,438	7.15	128
MW-12	1/30/2014	14.13	0.00	927	5.44	66
	4/9/2014	19.96	8.58	774	7.01	30
	7/22/2014	24.34	0.85	1,067	7.11	-5
	10/29/2014	18.73	0.63	967	7.13	-67
	2/12/2015	15.09	1.11	906	6.78	45
	6/16/2015	20.24	2.43	1,014	7.15	50
	9/15/2015	20.60	5.65	946	6.90	92
	10/22/2015	17.63	4.28	953	7.26	362
	12/16/2015	16.34	0.70	979	7.07	133
	3/22/2016	16.31	0.72	901	7.26	150
MW-13	1/30/2014	15.00	6.53	774	7.04	158
	4/8/2014	15.35	7.03	674	6.93	109
	7/22/2014	23.53	8.10	790	7.31	76
	10/29/2014	19.97	6.70	767	7.19	135
	2/10/2015	15.74	4.85	759	6.25	110
	6/17/2015	18.95	5.22	673	7.27	102
	9/16/2015	18.88	6.52	659	7.20	86
	12/15/2015	15.57	6.26	487	7.59	79
	3/21/2016	16.76	8.37	741	7.40	129
MW-14	1/30/2014	15.31	3.53	724	7.00	183
	4/9/2014	18.75	5.62	608	7.06	181
	7/22/2014	22.63	4.81	683	7.32	66
	10/29/2014	17.09	5.49	703	7.29	101
	2/12/2015	14.50	4.17	687	6.73	94
	6/17/2015	18.90	3.42	698	7.20	97
	9/16/2015	20.70	3.89	587	7.14	82
	12/15/2015	15.63	3.42	649	7.19	85
	3/22/2016	14.72	8.38	676	7.61	151
MW-15	1/30/2014	12.24	0.00	732	5.65	218
	4/8/2014	15.84	9.96	653	6.93	180
	7/23/2014	18.11	4.78	734	7.31	92
	10/29/2014	20.21	4.49	728	7.16	147
	2/10/2015	16.94	3.79	732	6.56	75
	6/17/2015	18.85	3.58	744	7.08	113
	9/16/2015	19.45	7.93	652	7.40	61
	10/22/2015	17.66	6.26	710	7.49	332
	12/15/2016	15.84	4.04	624	7.19	81
	3/21/2016	17.34	6.20	736	7.39	104

Please refer to notes at end of table.

Table 5
Groundwater Parameters
Andover Colt Court Release Site
Andover, Kansas

Sample Location	Sample Date	Temperature (°C)	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm)	pH	ORP
MW-16	1/30/2014	12.34	2.39	929	5.79	191
	4/8/2014	15.65	8.32	713	6.91	181
	7/23/2014	21.58	4.60	981	7.28	87
	10/29/2014	20.13	4.36	972	7.09	156
	2/10/2015	16.70	3.25	924	6.73	97
	6/17/2015	20.30	3.66	889	7.16	120
	9/16/2015	18.79	5.00	771	7.11	83
	12/15/2015	15.94	4.42	642	7.34	77
	3/21/2016	17.18	7.32	893	7.46	121
MW-17	3/20/2015	18.15	0.61	1057	6.81	42
	4/20/2015	16.87	0.83	1,012	6.70	-46
	6/16/2015	17.43	0.92	1,047	7.00	-10
	8/20/2015	17.79	0.67	1,067	7.18	-98
	9/15/2015	17.65	0.38	1,121	6.93	-198
	12/15/2015	14.55	0.42	922	6.96	-113
	3/22/2016	16.30	0.35	958	7.03	-94
MW-18	3/20/2015	17.43	0.68	990	6.89	-13
	4/20/2015	17.38	0.79	880	6.17	62
	6/16/2015	18.90	0.93	899	7.12	-18
	8/20/2015	19.36	0.97	924	6.59	-57
	9/15/2015	20.55	6.54	912	7.46	-80
	12/15/2015	17.06	0.98	879	7.04	8
	3/22/2016	18.21	0.48	899	7.15	-79
MW-19	3/20/2015	17.83	1.57	905	7.09	50
	4/20/2015	17.11	1.36	841	6.62	-61
	6/16/2015	18.83	0.49	827	7.25	-82
	8/20/2015	18.76	0.70	813	8.50	-53
	9/15/2015	24.37	3.70	859	7.30	-53
	12/15/2015	17.15	2.05	810	7.14	28
	3/22/2016	17.77	2.45	825	7.26	-2
SVE-2	12/16/2015	13.43	0.55	1533	6.86	-8
	3/23/2016	--	--	--	--	--
SVE-3	3/23/2016	--	--	--	--	--
SVE-4	12/16/2015	--	--	--	--	--
	3/23/2016	--	--	--	--	--

Notes:

1. °C = Degrees Celsius.
2. mg/L = Milligrams per liter.
3. ORP = Oxidation-reduction potential.
4. Specific Conductivity was documented as µS/cm (millisiemens per centimeter) on the field sampling sheets. The value is reported in this table as microsiemens/centimeter.
5. -- = Insufficient groundwater present; parameters not measured.

Table 6
Groundwater Analytical Results – Monitoring and Pilot Test Wells – GRO and VOCs
Andover Colt Court Release Site
Andover, Kansas

Sample Location	Sample Date	GRO	LRH	MRH	1,2,4 Trimethylbenzene	1,2 Dichloroethane	1,3,5-Trimethylbenzene	2-Butanone	Benzene	Cyclohexane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methylcyclohexane	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	Toluene	Total Xylenes
		Concentrations in mg/L (ppm)																		
MW-1	1/30/2014	44	--	--	1.0	<0.025	0.30	<0.05	3.1	0.45	1.4	0.045	3.5	0.076	0.29	0.030	0.14	1.6	9.3	5.2
	4/9/2014	20	--	--	0.49	<0.010	0.18	<0.020	1.1	<0.01	0.2	0.011	--	0.023	0.069	0.018	0.016	--	3.1	2.5
	7/23/2014	49	--	--	0.39	<0.001	0.11	0.023	3.1	0.059	0.61	0.011	2.2	<0.010	0.044	<0.010	0.019	1.2	6.4	3.4
	10/29/2014	45	--	--	0.47	<0.010	0.19	<0.020	5.0	0.051	0.50	<0.010	3.4	0.015	0.043	<0.010	<0.010	2.2	12	5.5
	2/12/2015	5.8	--	--	<0.010	<0.010	<0.010	<0.020	0.26	<0.010	0.077	<0.010	0.64	0.016	0.022	<0.010	<0.010	0.36	0.99	0.99
	6/16/2015	140	--	--	0.32	<0.010	0.30	<0.020	5.2	0.12	0.47	0.011	5.3	<0.010	0.11	<0.010	0.012	2.8	11	8.1
	9/15/2015	67	--	--	0.61	<0.001	0.26	0.032	1.3	0.14	0.42	0.0095	--	0.019	0.065	0.017	0.020	--	2.4	4.4
	12/16/2015	38.3 J	--	--	0.51	<0.01	0.16	<0.10	5.7	0.113	1.26	0.0219	--	0.0138	0.0944	<0.01	0.046	--	7.81	4.91
KDHE Split	12/16/2015	21.2 J	--	--	0.73	<0.025	0.22	<0.25	5.6	0.18	1.4	0.025	--	0.016 J	0.11 J	0.015 J	0.066	--	8.2	5.5
	3/23/2016	10.1 j	3.94	8.07	0.498	0.000535 j	0.098 j	0.0062	0.675	0.033	0.139 j	0.00541j	--	0.00975	0.05 j	0.00317 j	0.016 j	--	0.401	2.2
KDHE Split	3/23/2016	16.7 j	2.9	5.7	0.462	<0.025 j	0.168 j	<0.025	0.73	--	0.197 j	0.0085 Jj	--	--	0.068 J j	0.019 J j	0.0251 j	--	0.406	2
MW-2	1/29/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/8/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/22/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/30/2014	0.11	--	--	0.0085	<0.001	0.0030	<0.002	0.0034	0.0038	0.018	<0.001	0.010	0.0013	0.0024	<0.001	0.0014	0.0097	0.0095	0.020
	2/10/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
Duplicate	2/10/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/16/2015	0.089	--	--	<0.001	<0.001	<0.001	<0.002	0.0013	<0.001	<0.001	<0.001	0.0052	<0.001	<0.001	<0.001	<0.001	0.0026	0.0089	0.0078
	9/16/2015	<0.050	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/21/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	0.0032	<0.0005	<0.0005	--	<0.0005	<0.0015
MW-3	1/28/2014	2.8	--	--	0.038	<0.001	<0.001	0.0069	0.76	0.072	0.07	0.0062	0.0098	0.0061	0.0081	<0.001	0.0079	<0.001	0.0081	0.011
	4/8/2014	3.0	--	--	0.048	<0.005	0.010	<0.01	0.64	<0.005	0.058	0.0061	--	0.0075	0.014	<0.005	0.011	--	0.1	0.053
	7/24/2014	9.8	--	--	0.16	<0.010	0.037	<0.020	1.8	0.081	0.51	<0.010	0.32	<0.010	0.028	<0.010	0.023	0.51	1.6	0.83
	10/30/2014	6.1	--	--	0.12	<0.010	0.025	<0.020	1.1	0.085	0.36	<0.010	0.17	0.019	0.029	<0.010	0.018	0.18	0.15	0.35
	2/10/2015	7.9	--	--	0.19	<0.010	0.047	<0.020	1.4	0.15	0.52	0.014	0.41	0.034	0.054	<0.010	0.032	0.32	0.93	0.73
	6/17/2015	21	--	--	0.46	<0.005	0.11	<0.01	1.6	0.016	0.95	0.030	0.92	0.029	0.10	0.031	0.078	0.57	1.5	1.5
	9/15/2015	11	--	--	0.28	<0.005	0.054	<0.01	1.2	0.19	0.65	0.023	--	0.020	0.039	<0.005	0.057	--	0.045	0.27
Duplicate	9/15/2015	11	--	--	0.089	<0.005	0.079	<0.01	0.98	0.23	0.77	0.032	--	0.031	0.086	0.012	0.070	--	0.048	0.37
	12/16/2015	4.75 J	--	--	0.241	<0.005	0.0317	<0.05	0.85	0.151	0.643	0.026	--	0.0215	0.054	<0.005	0.061	--	<0.025	<0.015
KDHE Split	12/16/2015	6.9 J	--	--	0.30	<0.025	0.039	<0.25	0.95	0.24	0.68	0.026	--	0.026	0.060 J	0.0057 J	0.067	--	0.049	<0.075
	3/23/2016	1.55	1.26	0.51	0.0251 j	<0.0005	0.00144 j	<0.0025	0.257 j	0.0421	0.192	0.00743	--	<0.001	0.0156	0.000787 j	0.0191	--	0.00172 j	<0.0075
KDHE Split	3/23/2016	1.9 J	1.4	0.6	0.0333 j	<0.005	0.0028 J j	<0.05	0.346 j	--	0.227	0.0099	--	--	0.0198 J	0.0016 J j	0.0246	--	0.0026 J j	<0.015

Please refer to notes at end of table.

Table 6
Groundwater Analytical Results – Monitoring and Pilot Test Wells – GRO and VOCs
Andover Colt Court Release Site
Andover, Kansas

Sample Location	Sample Date	GRO	LRH	MRH	1,2,4 Trimethylbenzene	1,2 Dichloroethane	1,3,5-Trimethylbenzene	2-Butanone	Benzene	Cyclohexane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methylcyclohexane	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	Toluene	Total Xylenes
		Concentrations in mg/L (ppm)																		
MW-4	1/28/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/8/2014	**2.5**	--	--	**0.054**	<0.001	0.027	0.0043	**0.23**	0.070	0.15	0.0039	--	0.0071	**0.016**	0.0022	0.0084	--	0.2	0.14
	7/24/2014	**0.75**	--	--	**0.047**	<0.001	0.017	<0.002	**0.11**	0.022	0.049	0.0029	0.043	0.0027	**0.0092**	<0.001	0.0070	0.028	0.015	0.070
Duplicate	7/24/2014	**0.79**	--	--	**0.054**	<0.001	0.019	<0.002	**0.11**	0.025	0.057	0.0033	0.050	0.0031	**0.0098**	0.0017	0.0080	0.032	0.017	0.083
	10/30/2014	**4.8**	--	--	**0.20**	<0.001	**0.089**	<0.002	**0.49**	0.097	0.40	0.014	0.20	0.017	**0.062**	0.0078	0.039	0.24	0.33	0.44
	2/10/2015	**1.6**	--	--	**0.12**	<0.001	**0.058**	<0.002	**0.17**	0.052	0.12	0.0042	0.022	0.0092	**0.019**	0.0058	0.0077	0.081	0.042	0.10
	6/16/2015	0.14	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	0.0013	<0.001	0.0046	<0.001	<0.001	<0.001	<0.001	0.003	0.0059	0.0077
	9/16/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	0.000725	<0.0005	<0.0005	--	<0.0005	<0.0015
MW-5	1/30/2014	**0.61**	--	--	**0.038**	0.0012	0.011	<0.002	**0.05**	0.018	0.034	0.0022	0.041	0.0017	**0.0086**	<0.001	0.0046	0.033	0.009	0.075
	4/8/2014	0.35 J	--	--	0.0051 J	<0.001	0.0013 J	0.0021 J	**0.025 J**	<0.001	0.0018 J	0.0021 J	--	0.0015 J	**0.0085 J**	<0.001	<0.001	--	0.0024 J	0.041 J
Duplicate	4/8/2014	**0.52 J**	--	--	**0.012 J**	<0.001	0.0035 J	0.0033 J	**0.037 J**	<0.001	0.0058 J	0.003 J	--	0.0019 J	**0.013 J**	0.001	0.0014 J	--	0.0061 J	0.06 J
	7/23/2014	<0.050	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	**0.0014**	<0.001	<0.001	<0.001	<0.001	<0.003
Duplicate	7/23/2014	<0.050	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	**0.0013**	<0.001	<0.001	<0.001	<0.001	<0.003
	10/29/2014	<0.050	--	--	<0.001	<0.001	<0.001	<0.002	0.0018	<0.001	<0.001	<0.001	0.0048	<0.001	<0.001	<0.001	<0.001	0.0027	0.010	0.0075
	2/10/2015	0.27	--	--	**0.0092**	<0.001	0.0024	<0.002	**0.040**	0.016	0.0071	0.0020	0.0068	0.0030	**0.0069**	0.0016	0.0021	0.011	0.0092	0.018
	6/16/2015	<0.050	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	9/16/2015	<0.050	--	--	<0.001	<0.001	<0.001	<0.002	0.0024	<0.001	<0.001	<0.001	--	<0.001	**0.0021**	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	0.00318 j	<0.0005	0.00154 j	<0.0025	0.00446 j	0.00415	0.0031 j	0.000686	--	<0.001	**0.0029**	<0.0005	0.000897 j	--	0.00181 j	0.00348
Duplicate	3/22/2016	<0.10	<0.10	<0.10	0.00433 j	<0.0005	0.00205 j	<0.0025	**0.00618 j**	0.00399	0.00443 j	0.000945	--	<0.001	**0.00324**	<0.0005	0.00129 j	--	0.00252 j	0.00446
MW-6	1/30/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/8/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/24/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	0.0031	<0.001	0.0032	<0.001	0.0027	<0.001	<0.001	<0.001	<0.001	0.0031	0.0083	0.0059
	10/29/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	0.0028	<0.001	<0.001	<0.001	<0.001	0.0014	0.0052	0.0042
	2/11/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
Duplicate	2/11/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/17/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	9/15/2015	0.24	--	--	0.0017	<0.001	<0.001	<0.002	0.0022	<0.001	0.0022	<0.001	--	<0.001	**0.0020**	<0.001	<0.001	--	0.0076	0.010
	10/22/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/16/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015

Please refer to notes at end of table.

Table 6
Groundwater Analytical Results – Monitoring and Pilot Test Wells – GRO and VOCs
Andover Colt Court Release Site
Andover, Kansas

Sample Location	Sample Date	GRO	LRH	MRH	1,2,4 Trimethylbenzene	1,2 Dichloroethane	1,3,5-Trimethylbenzene	2-Butanone	Benzene	Cyclohexane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methylcyclohexane	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	Toluene	Total Xylenes
		Concentrations in mg/L (ppm)																		
MW-7	1/30/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/8/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/24/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0016	<0.003
	10/29/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0024	<0.003
	2/11/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/17/2015	0.089	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	9/15/2015	0.11	--	--	0.0027	<0.001	<0.001	<0.002	0.0029	<0.001	0.0031	<0.001	--	<0.001	**0.0024**	<0.001	<0.001	--	0.0088	0.014
	10/22/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/16/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015
MW-8	1/30/2014	0.16	--	--	0.0026	<0.001	0.001	<0.002	0.0030	<0.001	0.0049	<0.001	0.013	<0.001	**0.0041**	<0.001	<0.001	0.0056	0.020	0.018
Duplicate	1/30/2014	0.15	--	--	0.0031	<0.001	0.001	<0.002	0.0038	<0.001	0.0056	0.0011	0.014	<0.001	**0.0040**	<0.001	<0.001	0.0064	0.025	0.021
	4/8/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/22/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/29/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	0.0014	<0.001	<0.001	<0.001	0.0041	<0.001	<0.001	<0.001	<0.001	0.0024	0.0082	0.0065
Duplicate	10/29/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	0.0013	<0.001	<0.001	<0.001	0.0041	<0.001	<0.001	<0.001	<0.001	0.0021	0.0081	0.0063
	2/10/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/17/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0017	<0.003
	9/16/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/23/2016	<0.10	<0.10	<0.10	<0.0005 j	<0.0005	<0.0005	<0.0025	<0.0005 j	<0.001	0.00074	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015
KDHE Split	3/23/2016	<0.50	<0.05	<0.06	0.00015 J j	<0.001	<0.001	<0.01	0.00048 Jj	--	0.00094 J	<0.001	--	--	<0.01	<0.001	<0.001	--	<0.001	<0.003
MW-9	1/28/2014	0.058	--	--	<0.001	<0.001	<0.001	<0.002	0.0046	0.0015	<0.001	<0.001	<0.002	<0.001	**0.0033**	<0.001	<0.001	<0.001	<0.001	<0.003
	4/8/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
Duplicate	4/8/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/24/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	0.0017	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0034	<0.003
	10/30/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0026	<0.003
Duplicate	10/30/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0023	<0.003
	2/11/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/16/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0053	<0.003
	9/15/2015	<0.05	--	--	0.0016	<0.001	<0.001	<0.002	0.0019	<0.001	0.0031	<0.001	--	<0.001	**0.0021**	<0.001	<0.001	--	0.0022	0.0043
	10/22/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015
Duplicate	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015

Please refer to notes at end of table.

Table 6
Groundwater Analytical Results – Monitoring and Pilot Test Wells – GRO and VOCs
Andover Colt Court Release Site
Andover, Kansas

Sample Location	Sample Date	GRO	LRH	MRH	1,2,4 Trimethylbenzene	1,2 Dichloroethane	1,3,5-Trimethylbenzene	2-Butanone	Benzene	Cyclohexane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methylcyclohexane	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	Toluene	Total Xylenes
		Concentrations in mg/L (ppm)																		
MW-10	1/28/2014	**1.1**	--	--	**0.12**	<0.001	0.039	0.0023	**0.026**	0.0081	0.036	0.0049	0.073	0.0036	**0.014**	0.0064	0.015	0.05	0.048	0.12
	4/8/2014	**8.8**	--	--	**0.56**	<0.005	**0.23**	<0.01	**0.12**	<0.005	0.11	0.011	--	0.026	**0.035**	<0.005	<0.005	--	0.3	1.1
	8/1/2014	0.091	--	--	<0.001	<0.001	<0.001	0.0066	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/29/2014	0.066	--	--	<0.001	<0.001	<0.001	<0.002	0.0021	<0.001	<0.001	<0.001	0.0058	<0.001	<0.001	<0.001	<0.001	0.0034	0.013	0.0092
	2/11/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/16/2015	0.35	--	--	<0.001	<0.001	<0.001	0.0029	0.0024	0.0032	<0.001	<0.001	0.0040	0.0045	<0.001	<0.001	<0.001	0.0021	0.0068	0.0062
	9/15/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	0.0014	<0.001	--	<0.001	**0.0019**	<0.001	<0.001	--	0.0016	<0.003
	10/22/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	0.212	--	--	<0.001	<0.001	<0.001	<0.01	**0.00819**	0.0336	<0.001	<0.001	--	0.00514	<0.005	<0.001	<0.001	--	<0.005	0.00577
	1/13/2016	**0.836**	--	--	<0.005	<0.005	<0.005	<0.05	<0.005	0.0505	<0.005	<0.005	--	0.00987	<0.025	<0.005	<0.005	--	<0.0250	<0.015
	3/23/2016	<0.10	<0.10 j	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	0.000703	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015
KDHE Split	3/23/2016	<0.50	0.025 J j	<0.06	0.00021 J	0.00023 J	<0.001	<0.01	0.00079 J	--	<0.001	<0.001	--	--	<0.01	<0.001	<0.001	--	<0.001	<0.003
MW-11	1/29/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	0.0024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/8/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/23/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/30/2014	0.25	--	--	**0.016**	<0.001	0.0058	<0.02	**0.012**	0.0078	0.038	0.0011	0.021	0.0014	**0.0059**	<0.001	0.0024	0.023	0.023	0.044
	2/10/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	0.0010	<0.001	<0.002	<0.001	**0.0034**	<0.001	<0.001	<0.001	<0.001	<0.003
	6/17/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0032	<0.003
Duplicate	6/17/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0035	<0.003
	9/16/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/21/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015
MW-12	1/28/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/9/2014	0.081	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/22/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/29/2014	0.12	--	--	0.0011	<0.001	<0.001	<0.002	**0.0050**	<0.001	0.0017	<0.001	0.010	<0.001	<0.001	<0.001	<0.001	0.0063	0.027	0.016
	2/12/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	0.0054	<0.001	<0.001	<0.001	<0.001	0.0029	0.0064	0.0083
	6/16/2015	0.061	--	--	<0.001	<0.001	<0.001	<0.002	0.0014	<0.001	0.0013	<0.001	0.0058	<0.001	<0.001	<0.001	<0.001	0.0028	0.011	0.0086
	9/15/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	**0.0018**	<0.001	<0.001	--	0.0013	<0.003
	10/22/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/16/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
KDHE Split	12/16/2015	<0.50	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.01	<0.001	<0.001	--	<0.001	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015

Please refer to notes at end of table.

Table 6
Groundwater Analytical Results – Monitoring and Pilot Test Wells – GRO and VOCs
Andover Colt Court Release Site
Andover, Kansas

Sample Location	Sample Date	GRO	LRH	MRH	1,2,4 Trimethylbenzene	1,2 Dichloroethane	1,3,5-Trimethylbenzene	2-Butanone	Benzene	Cyclohexane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methylcyclohexane	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	Toluene	Total Xylenes
		Concentrations in mg/L (ppm)																		
MW-13	1/30/2014	0.072	--	--	0.0014	<0.001	<0.001	<0.002	0.0011	<0.001	0.0024	<0.001	0.0063	<0.001	**0.0038**	<0.001	<0.001	0.0026	0.0083	0.0089
	4/8/2014	<0.050	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/22/2014	<0.050	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/29/2014	0.056	--	--	<0.001	<0.001	<0.001	<0.002	0.0028	<0.001	0.0011	<0.001	0.0065	<0.001	<0.001	<0.001	<0.001	0.0040	0.015	0.011
	2/10/2015	<0.050	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/17/2015	<0.050	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0019	<0.003
	9/16/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
Duplicate	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/21/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015
MW-14	1/30/2014	<0.05	--	--	0.0011	<0.001	<0.001	<0.002	<0.001	<0.001	0.0016	<0.001	0.0043	<0.001	<0.001	<0.001	<0.001	0.0017	0.0059	0.0061
	4/9/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/22/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/29/2014	**0.54**	--	--	0.0029	<0.001	0.0013	<0.002	**0.021**	<0.001	0.0049	<0.001	0.036	<0.001	<0.001	<0.001	<0.001	0.022	0.10	0.058
	2/12/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/17/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0016	<0.003
	9/16/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015
MW-15	1/28/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	0.0026	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/8/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/23/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/29/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	0.0012	<0.001	<0.001	<0.001	0.0030	<0.001	<0.001	<0.001	<0.001	0.0018	0.0072	0.0048
	2/10/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/17/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0043	<0.003
	9/16/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	**0.0018**	<0.001	<0.001	--	0.0018	<0.003
	10/22/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/21/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015

Please refer to notes at end of table.

Table 6
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Andover Colt Court Release Site
Andover, Kansas

Sample Location	Sample Date	GRO	LRH	MRH	1,2,4 Trimethylbenzene	1,2 Dichloroethane	1,3,5-Trimethylbenzene	2-Butanone	Benzene	Cyclohexane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methylcyclohexane	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	Toluene	Total Xylenes
		Concentrations in mg/L (ppm)																		
MW-16	1/28/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
Duplicate	1/28/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/8/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/23/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/29/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	0.0026	<0.001	<0.001	<0.001	<0.001	0.0014	0.0050	0.0040
	2/10/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/17/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0029	<0.003
	9/16/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/21/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015
MW-17	6/16/2015	**95**	--	--	**0.19**	<0.001	**0.31**	0.044	**2.0**	0.37	**1.5**	0.044	3.4	0.038	**0.14**	0.015	0.10	1.8	**6.8**	5.2
	9/15/2015	**13**	--	--	**0.45**	<0.001	**0.11**	0.0061	**0.71**	0.23	0.59	0.026	--	0.031	**0.068**	<0.001	0.061	--	0.46	1.0
	12/16/2015	**2.24**	--	--	**0.052**	<0.001	0.00125	<0.01	**0.27**	0.08	0.153	0.00807	--	0.0142	**0.0125**	<0.001	0.014	--	0.0619	0.1
	3/22/2016	**3.03**	**2.05**	**1.27**	**0.0431**	<0.0005	0.00223	<0.0025	**0.338**	0.0821	0.0226	0.00467	--	0.00918	**0.00584**	<0.0005	0.002	--	0.0464	0.0699
MW-18	6/16/2015	**6.3**	--	--	**0.021**	<0.001	0.021	<0.002	**0.26**	0.036	0.12	0.0041	0.24	0.0035	**0.015**	0.0016	0.0089	0.17	0.59	0.41
	9/15/2015	**3.0**	--	--	**0.069**	<0.001	0.019	<0.002	**0.26**	0.036	0.12	0.0040	--	0.0036	**0.019**	<0.001	0.0089	--	0.090	0.29
Duplicate	9/15/2015	**3.2**	--	--	**0.023**	<0.001	0.017	<0.002	**0.25**	0.037	0.11	0.0043	--	0.0041	**0.022**	0.0018	0.0090	--	0.097	0.28
	12/15/2015	<0.10	--	--	<0.001 J	<0.001	<0.001	<0.01	**0.00929 J**	0.00178 J	0.00446 J	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
Duplicate	12/15/2015	<0.10	--	--	0.00154 J	<0.001	<0.001	<0.01	**0.0177 J**	0.00382 J	0.00771 J	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	**0.923**	**0.563**	**0.15**	**0.0116**	<0.0005	0.00266	<0.0025	**0.107**	0.0214	0.0628	0.00227	--	0.00251	**0.00365**	<0.0005	0.0048	--	0.0107	0.0135
MW-19	6/16/2015	**0.99 J**	--	--	**0.024 J**	<0.001	0.0074	<0.002	**0.11**	0.013	0.045	0.0015	0.16	<0.001	**0.0029 J**	<0.001	0.0031	0.068	0.30	0.23
Duplicate	6/16/2015	**2.5 J**	--	--	0.0071 J	<0.001	0.0062	<0.002	**0.11**	0.012	0.046	0.0016	0.13	<0.001	**0.0051 J**	<0.001	0.0027	0.067	0.30	0.19
	9/15/2015	**1.4**	--	--	**0.020**	<0.001	0.0051	0.0044	**0.11**	0.016	0.037	0.0015	--	0.0016	**0.0034**	<0.001	0.0030	--	0.15	0.16
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	**0.00545**	0.00105	0.00169	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	0.00221	<0.001	0.000875	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015
SVE-2	12/16/2015	<0.10	--	--	0.00651	<0.001	0.00176	<0.01	**0.00637**	0.00132	0.00812	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	0.0192	0.252
	3/23/2016	<0.10	<0.10	0.136	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015

Please refer to notes at end of table.

Table 6
Groundwater Analytical Results – Monitoring and Pilot Test Wells – GRO and VOCs
Andover Colt Court Release Site
Andover, Kansas

Sample Location	Sample Date	GRO	LRH	MRH	1,2,4 Trimethylbenzene	1,2 Dichloroethane	1,3,5-Trimethylbenzene	2-Butanone	Benzene	Cyclohexane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methylcyclohexane	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	Toluene	Total Xylenes
		Concentrations in mg/L (ppm)																		
SVE-4	12/16/2015	**15.5**	--	--	**1.01**	<0.005	**0.951**	<0.05	<0.005	0.0596	0.343	<0.005	--	0.0753	**0.198**	0.144	0.470	--	<0.025	0.466
	3/23/2016	--	--	--	**0.09**	<0.0005	0.00665	<0.0025	**0.262**	<0.01	0.0229	<0.005	--	<0.01	**0.0205**	<0.0005	0.006	--	<0.0005	<0.015
KDHE Tier 2 Values		**0.5**	**0.35**	**0.15**	**0.00844**	**0.005**	**0.044**	**4.92**	**0.005**	**7.02**	**0.7**	**0.45**	**NE**	**NE**	**0.00111**	**0.169**	**0.66**	**NE**	**1**	**10**

Notes:

1. GRO = Gasoline-range organics analyzed by U.S. Environmental Protection Agency (EPA) Method 8015D.
2. KDHE analyzed GRO during the March 2016 event by EPA Method 8260.
3. LRH = Low-range hydrocarbons. LRH was first analyzed during the March 2016 event by EPA Method 8015. KDHE anayzed LRH in March 2016 by EPA Method 8260.
4. MRH = Middle-range hydrocarbons. MRH was first analyzed during the March 2016 event by EPA Method 8015M.
5. Volatile organic compounds by EPA Method 8260B (low level VOCs).
6. mg/L (ppm) = Milligrams per liter (parts per million).
7. **Bold** indicates detected concentration above the KDHE screening value.
8. < = Not detected above the method reporting limit (MRL).
9. -- = Not analyzed.
10. J = Estimated value
11. j = Relative percent difference was greater than +/-30%.
12. NE = A KDHE Tier 2 Risk Based Screening Value has not been established.
13. KDHE Split = Sample at time of collection was split with KDHE and analyzed independently.
14. Duplicate = Field Duplicate Sample

Table 7
Groundwater Analytical Results – Irrigation Wells – GRO and VOCs
Andover Colt Court Release Site
Andover, Kansas

Well Location	Sample Date	GRO	LRH	MRH	1,2,4 Trimethylbenzene	1,2 Dichloroethane	1,3,5- Trimethylbenzene	2-Butanone	Benzene	Cyclohexane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methylcyclohexane	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	Toluene	Total Xylenes
		Concentrations in mg/L (ppm)																		
2001 N Colt Ct	6/16/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	9/14/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005 j	<0.0005	<0.0005	<0.0025	<0.0005 j	<0.001 j	<0.0005 j	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015 j
Duplicate	3/22/2016	<0.10	<0.10	<0.10	0.000852 j	<0.0005	<0.0005	<0.0025	0.00188 j	0.00114 j	0.000685 j	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	0.00156 j
2004 N Colt Ct	6/16/2015	0.056	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	9/14/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/21/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015
2005 N Colt Ct	1/31/2014	**3.7**	--	--	**0.13**	0.0041	0.029	<0.002	**0.15**	0.07	0.17	0.0057	0.26	0.01	**0.017**	0.0034	0.018	0.14	0.33	0.40
	4/10/2014	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/23/2014	0.39	--	--	**0.018**	<0.001	0.0039	<0.002	**0.027**	0.011	0.023	<0.001	0.025	0.0019	**0.0025**	<0.001	0.0022	0.019	0.043	0.044
	10/30/2014	**2.2**	--	--	**0.077**	<0.001	0.0094	<0.002	**0.23**	0.055	0.19	0.0043	0.078	0.0091	**0.017**	0.0013	0.014	0.043	0.21	0.12
	2/12/2015	**1.4**	--	--	**0.039**	<0.001	0.0091	<0.002	**0.059**	0.022	0.041	0.0013	0.053	0.0039	**0.0045**	<0.001	0.0044	0.034	0.11	0.088
	6/16/2015	**2.3**	--	--	**0.012**	<0.001	0.013	<0.002	**0.066**	0.027	0.066	0.0027	0.081	0.0039	**0.0095**	<0.001	0.0069	0.087	0.18	0.17
	9/14/2015	**4.9**	--	--	**0.082**	<0.001	0.020	<0.002	**0.18**	0.053	0.15	0.0038	--	0.010	**0.013**	<0.001	0.012	--	0.68	0.34
Duplicate	9/14/2015	**5.2**	--	--	**0.090**	<0.001	0.022	<0.002	**0.20**	0.051	0.17	0.0044	--	0.0090	**0.013**	<0.001	0.013	--	0.70	0.38
	12/15/2015	**2.75**	--	--	**0.0672**	<0.001	0.0169	<0.01	**0.109**	0.0284	0.127	0.00317	--	0.00434	**0.0136**	<0.001	0.00952	--	0.418	0.28
	3/21/2016	**3.42**	**4.54**	**1.37**	**0.229**	<0.01	**0.0601**	<0.05	**0.164**	0.0721	0.320	<0.01	--	<0.02	**0.0330**	<0.01	0.0302	--	0.845	0.727
2002 N Colt Ct	1/31/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.0010		<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/10/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/23/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/30/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	2/12/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/16/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	9/14/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015
HOA-1	1/29/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/10/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/23/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/30/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	2/12/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
Duplicate	2/12/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/17/2015	0.076	--	--	0.0018	<0.001	<0.001	<0.002	**0.011**	0.0019	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	0.0067	<0.001	0.0067
	9/14/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/16/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
Duplicate	12/16/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
KDHE Split	12/16/2015	<0.50	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.01	<0.001	<0.001	--	<0.001	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015

Please refer to notes at end of table.

Table 7
Groundwater Analytical Results – Irrigation Wells – GRO and VOCs
Andover Colt Court Release Site
Andover, Kansas

Well Location	Sample Date	GRO	LRH	MRH	1,2,4 Trimethylbenzene	1,2 Dichloroethane	1,3,5- Trimethylbenzene	2-Butanone	Benzene	Cyclohexane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methylcyclohexane	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	Toluene	Total Xylenes
		Concentrations in mg/L (ppm)																		
HOA-2	1/29/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/10/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/24/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/30/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	2/12/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
2006 N Colt Ct	4/10/2014	**23**	--	--	**0.75**	<0.005	**0.28**	0.026	**0.98**	0.16	0.36	0.016	--	0.038	**0.076**	<0.005	0.048	--	**2**	2.1
	6/16/2015	**140**	--	--	**1.8**	<0.025	**0.55**	<0.05	**2.1**	0.42	**2.2**	0.073	6.0	0.063	**0.19**	0.046	0.24	3.0	**9.9**	9.0
	9/15/2015	**29**	--	--	**0.82**	<0.005	**0.21**	<0.01	**1.1**	0.28	**1.2**	0.039	--	0.055	**0.12**	<0.005	0.100	--	**1.7**	2.8
	12/16/2015	**39.6**	--	--	**1.12**	<0.025	**0.278**	<0.25	**1.74**	0.151	**1.48**	0.0419	--	0.039	**0.201**	<0.025	0.111	--	**3.39**	4.71
	3/22/2016	**13.3**	**5.43**	**4.01**	**0.564**	<0.0125	**0.124**	<0.0625	**0.628**	0.102	**0.794**	0.0257	--	<0.025	**0.0898**	<0.0125	0.0698	--	0.899	2.00
2007 N Colt Ct	7/23/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/30/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	2/12/2015	0.40	--	--	**0.025**	<0.001	<0.001	<0.002	**0.052**	0.019	0.027	<0.001	0.023	0.0018	**0.0039**	<0.001	0.0025	0.0025	0.022	0.025
	6/16/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	9/14/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10		--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	0.000835	<0.0005	<0.0005	<0.0025	0.00184	0.00109	0.000643	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	0.00156
2019 N Ruger Cir	1/29/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/10/2014	<0.050	--	--	<0.001	<0.001	<0.001	0.0032	0.0048	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/23/2014	0.17	--	--	0.0018	<0.001	<0.001	<0.002	**0.069**	0.0051	<0.001	<0.001	--	<0.001	**0.0016**	<0.001	<0.001	0.0048	0.002	0.0055
	10/28/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	2/11/2015	0.12	--	--	<0.001	<0.001	<0.001	<0.002	**0.053**	0.0054	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/17/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/17/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	9/14/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	**0.0050**	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015
Duplicate	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015
2020 N Ruger Cir	2/20/2014	0.075	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/10/2014	0.38	--	--	<0.001	<0.001	<0.001	0.16	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/23/2014	0.059	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/28/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	2/11/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
Duplicate	2/11/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/16/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	9/14/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015

Please refer to notes at end of table.

Table 7
Groundwater Analytical Results – Irrigation Wells – GRO and VOCs
Andover Colt Court Release Site
Andover, Kansas

Well Location	Sample Date	GRO	LRH	MRH	1,2,4 Trimethylbenzene	1,2 Dichloroethane	1,3,5- Trimethylbenzene	2-Butanone	Benzene	Cyclohexane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methylcyclohexane	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	Toluene	Total Xylenes
		Concentrations in mg/L (ppm)																		
2028 N Ruger Cir	1/30/2014	<0.05	--	--	<0.001	<0.001	<0.001	0.015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/10/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
Duplicate	4/10/2014	0.066	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/23/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
Duplicate	7/23/2014	<0.05	--	--	<0.001	<0.001	<0.001	0.0037	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/28/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
Duplicate	10/28/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	2/11/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/17/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	9/15/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015
2032 N Ruger Cir	1/29/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/10/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	7/23/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.03
	10/28/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.03
	2/11/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/17/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	9/15/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015
2021 N Ruger Ct	1/29/2014	<0.05	--	--	<0.001	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0030
	4/10/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0030
	7/23/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.0020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0030
	10/30/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.0020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0030
	2/11/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.0020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0030
	6/17/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.0020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0030
	9/15/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015
2025 N Ruger Ct	1/31/2014	<0.050	--	--	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0030
	4/10/2014	<0.050	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0030
	7/23/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.0020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0030
	10/30/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.0020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0030
	2/11/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.0020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0030
	6/17/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.0020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0030
	9/15/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015

Please refer to notes at end of table.

Table 7
Groundwater Analytical Results – Irrigation Wells – GRO and VOCs
Andover Colt Court Release Site
Andover, Kansas

Well Location	Sample Date	GRO	LRH	MRH	1,2,4 Trimethylbenzene	1,2 Dichloroethane	1,3,5- Trimethylbenzene	2-Butanone	Benzene	Cyclohexane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methylcyclohexane	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	Toluene	Total Xylenes
		Concentrations in mg/L (ppm)																		
1009 W Mountain	1/31/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/10/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/23/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/30/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	2/11/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/16/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	9/16/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/16/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015
2007 N Mountain Ct	1/31/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/10/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/23/2014	<0.05	--	--	<0.0010	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/30/2014	<0.05	--	--	<0.0010	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	2/11/2015	<0.05	--	--	<0.0010	<0.001	<0.001	0.014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/16/2015	<0.05	--	--	<0.0010	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	0.0012	0.0013	<0.003
	9/15/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/16/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015
2009 N Mountain Ct	1/29/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/10/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/23/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/28/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	2/11/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/16/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	9/15/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/16/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015
1211 W Quail Crossing Ct	1/31/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/10/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
Duplicate	4/10/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/23/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/30/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	2/12/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/17/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	9/15/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
Duplicate	9/15/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015

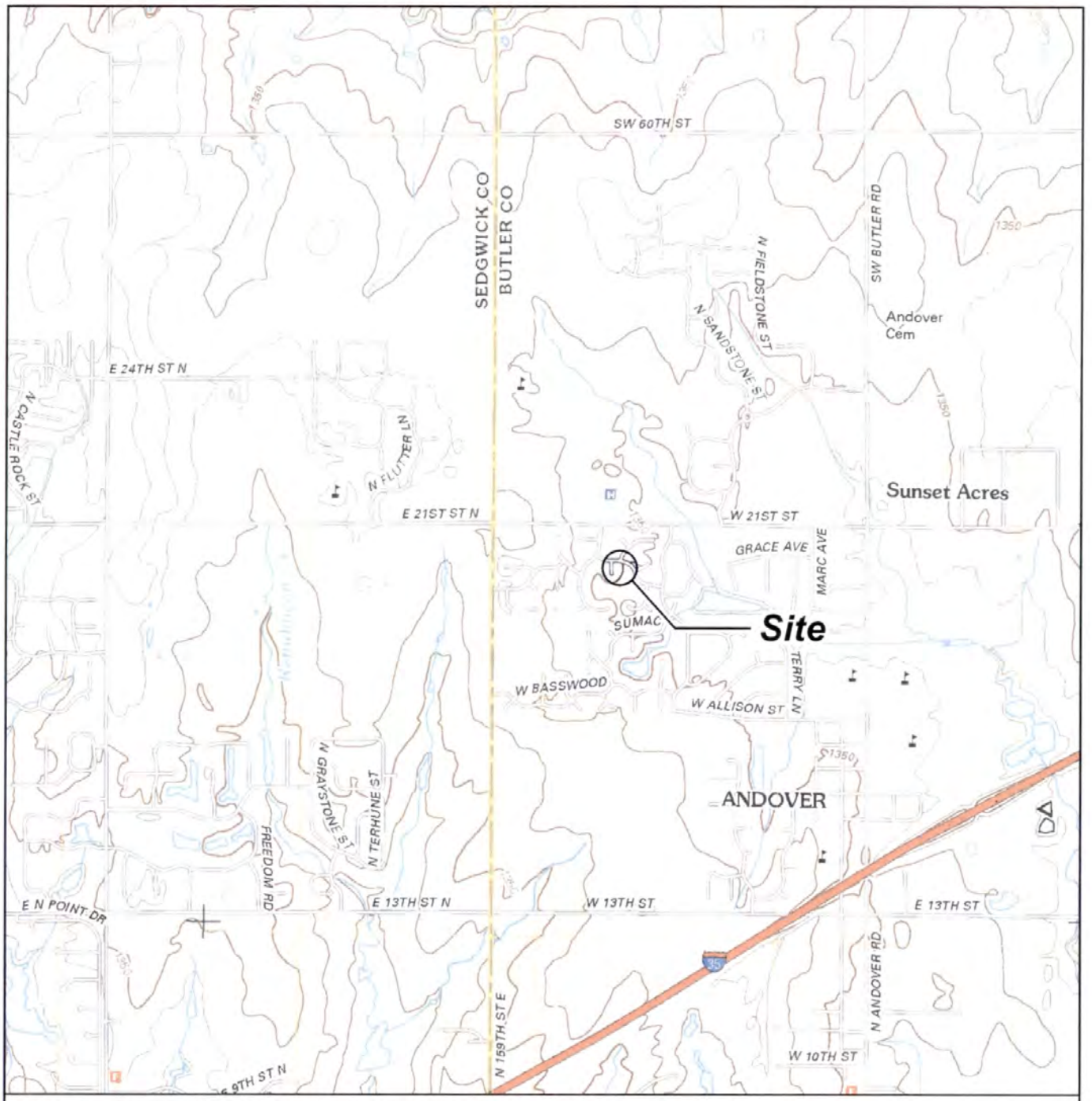
Please refer to notes at end of table.

Table 7
Groundwater Analytical Results – Irrigation Wells – GRO and VOCs
Andover Colt Court Release Site
Andover, Kansas

Well Location	Sample Date	GRO	LRH	MRH	1,2,4 Trimethylbenzene	1,2 Dichloroethane	1,3,5- Trimethylbenzene	2-Butanone	Benzene	Cyclohexane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methylcyclohexane	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	Toluene	Total Xylenes
		Concentrations in mg/L (ppm)																		
1910 N Quail Crossing	4/10/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/24/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/30/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	2/12/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
KDHE Tier 2 Values		**0.5**	**0.35**	**0.15**	**0.00844**	**0.005**	**0.044**	**4.92**	**0.005**	**7.02**	**0.7**	**0.45**	**NE**	**NE**	**0.00111**	**0.169**	**0.66**	**NE**	**1**	**10**

Notes:

1. GRO = Gasoline-range organics analyzed by U.S. Environmental Protection Agency (EPA) Method 8015D.
2. KDHE analyzed GRO during the March 2016 event by EPA Method 8260.
3. LRH = Low-range hydrocarbons. LRH was first analyzed during the March 2016 event by EPA Method 8015. KDHE anayzed LRH in March 2016 by EPA Method 8260.
4. MRH = Middle-range hydrocarbons. MRH was first analyzed during the March 2016 event by EPA Method 8015M.
5. Volatile organic compounds by EPA Method 8260B (low level VOCs).
6. mg/L (ppm) = Milligrams per liter (parts per million).
7. **Bold** indicates detected concentration above the KDHE screening value.
8. < = Not detected above the method reporting limit (MRL).
9. -- = Not analyzed.
10. j = Relative percent difference was > +/-30%.
11. NE = A KDHE Tier 2 Risk Based Screening Value has not been established.
12. KDHE Tier 2 Screening Values from the *Risk-Based Standards for Kansas, 5th Edition*, October 2010.
13. Well locations are shown on Figure 2.
14. NS = No sample collected.
15. KDHE Split = Sample at time of collection was split with KDHE and analyzed independently.
16. Duplicate = Field Duplicate Sample.



Note: Base map prepared from USGS 7.5-minute quadrangles of Andover, KS, dated 2012 as provided by USGS.gov.

0 2,000 4,000

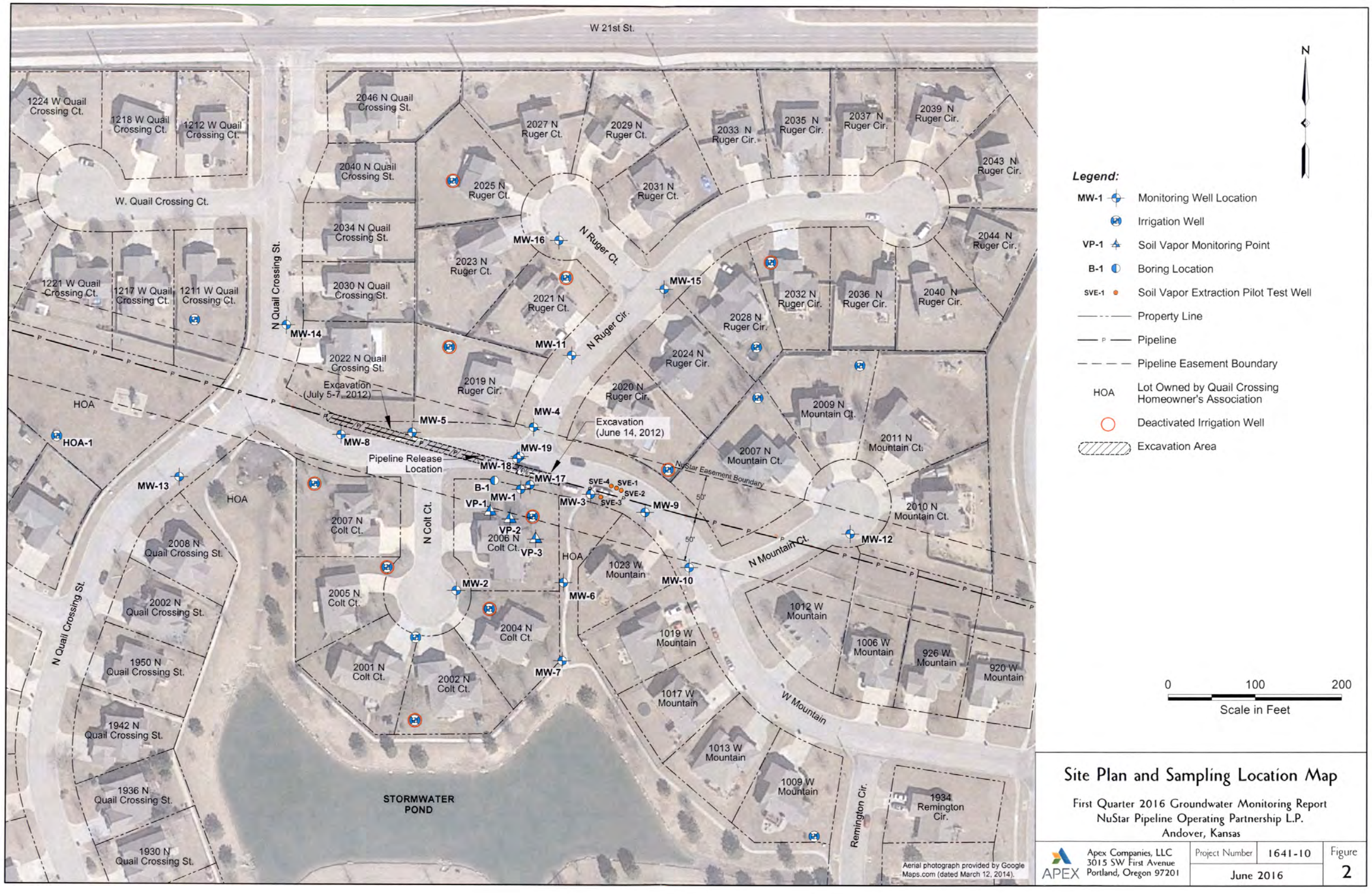
Approximate Scale in Feet

N

Site Location Map

First Quarter 2016 Groundwater Monitoring Report
NuStar Pipeline Operating Partnership L.P.
Andover, Kansas

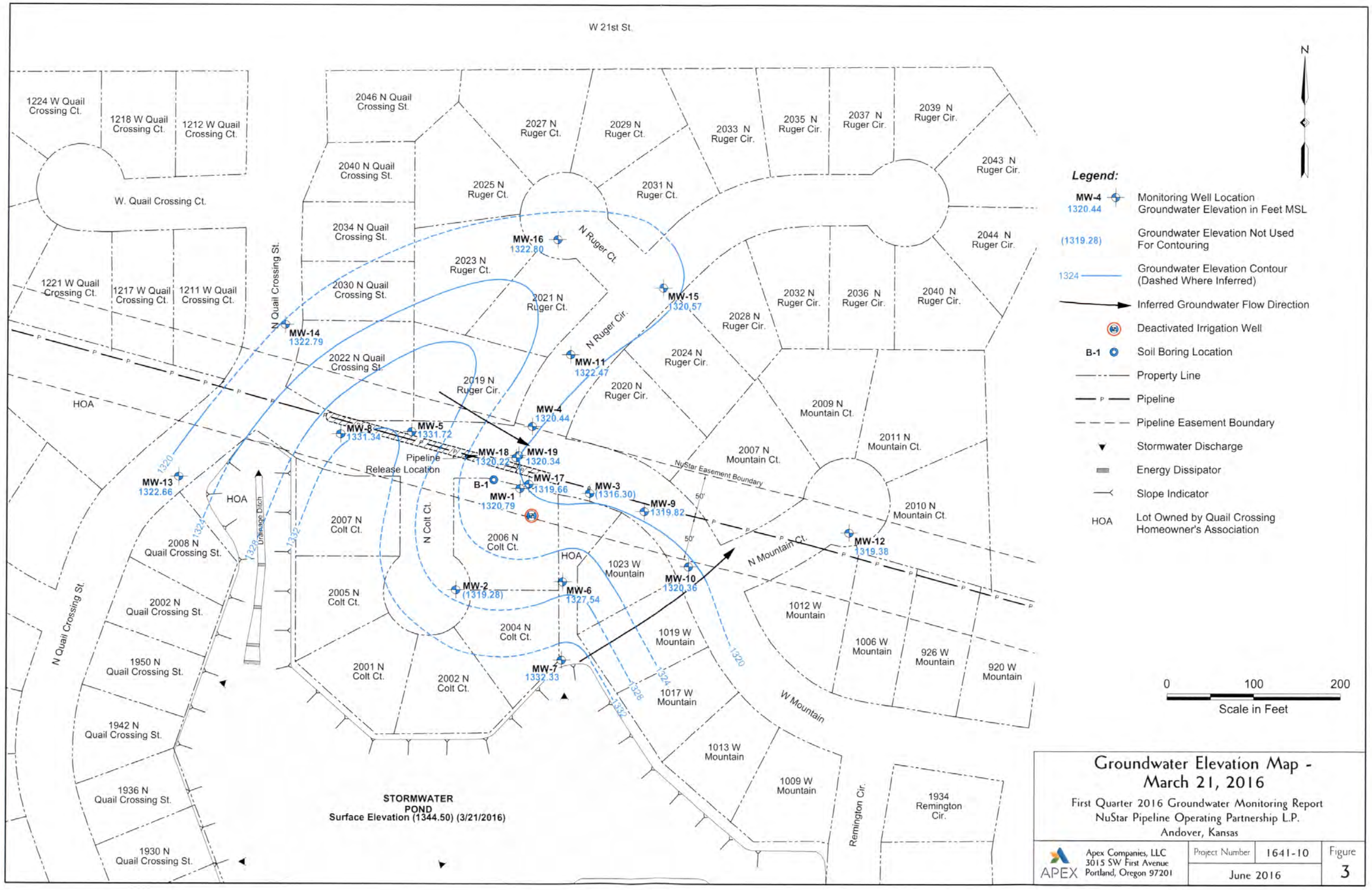
APEX	Apex Companies, LLC 3015 SW First Avenue Portland, Oregon 97201	Project Number 1641-10 June 2016	Figure 1



Site Plan and Sampling Location Map

First Quarter 2016 Groundwater Monitoring Report
NuStar Pipeline Operating Partnership L.P.
Andover, Kansas

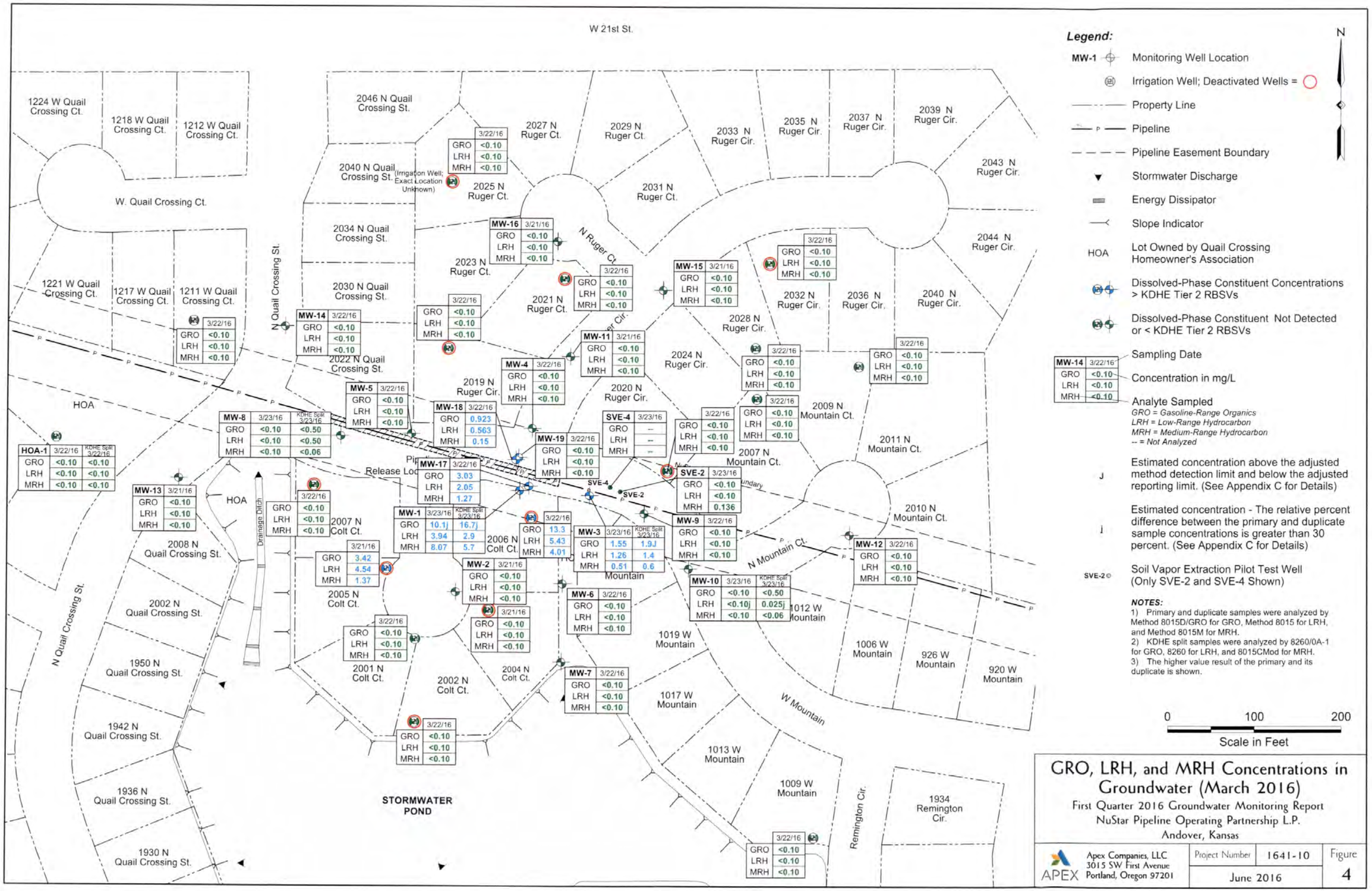
APEX Apex Companies, LLC 3015 SW First Avenue Portland, Oregon 97201	Project Number	1641-10	Figure
	June 2016		2



Groundwater Elevation Map - March 21, 2016

First Quarter 2016 Groundwater Monitoring Report
NuStar Pipeline Operating Partnership L.P.
Andover, Kansas

APEX Apex Companies, LLC 3015 SW First Avenue Portland, Oregon 97201	Project Number	1641-10	Figure
	June 2016		3

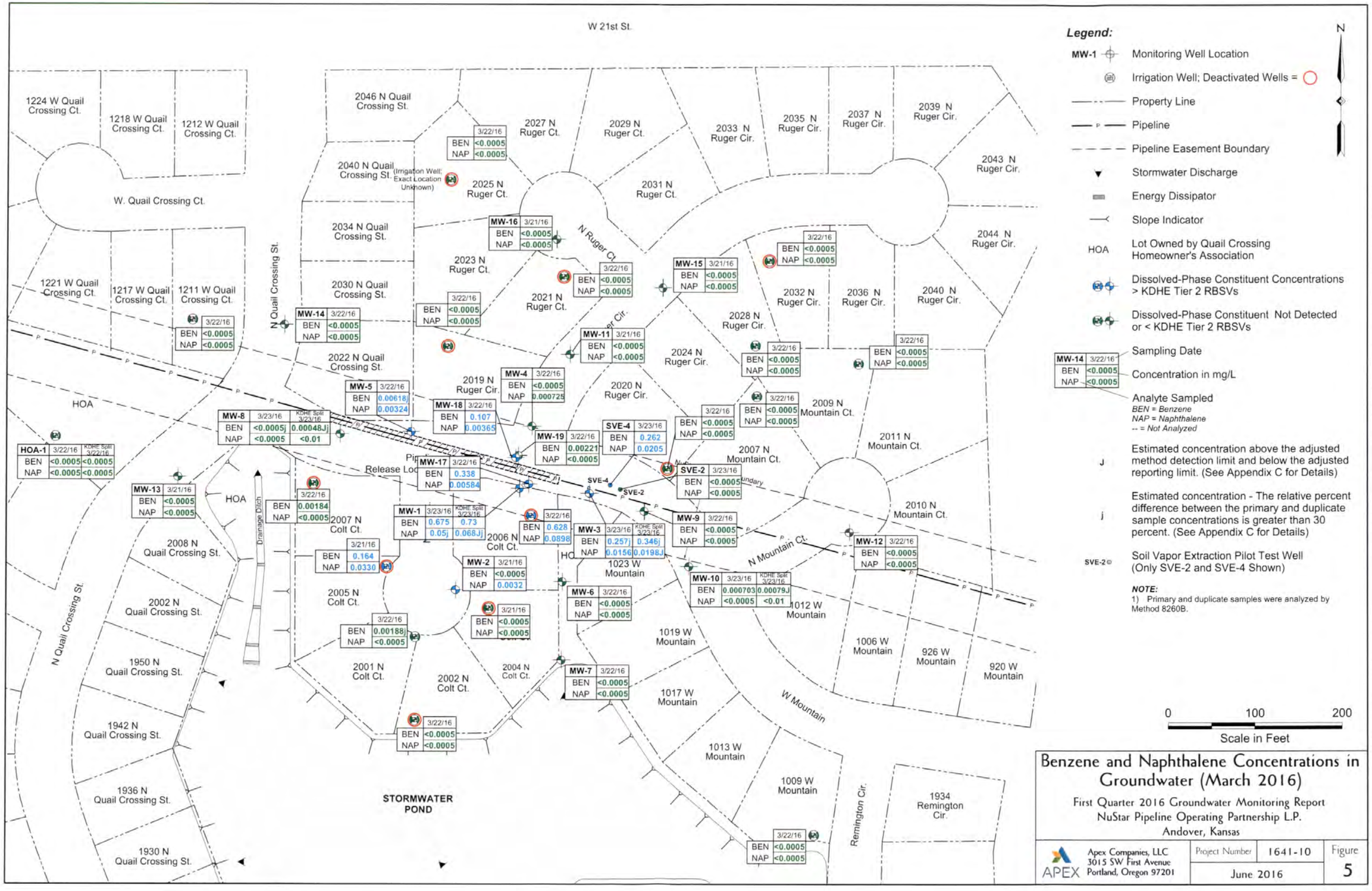


GRO, LRH, and MRH Concentrations in Groundwater (March 2016)

First Quarter 2016 Groundwater Monitoring Report
NuStar Pipeline Operating Partnership L.P.
Andover, Kansas

Apex Companies, LLC
3015 SW First Avenue
Portland, Oregon 97201

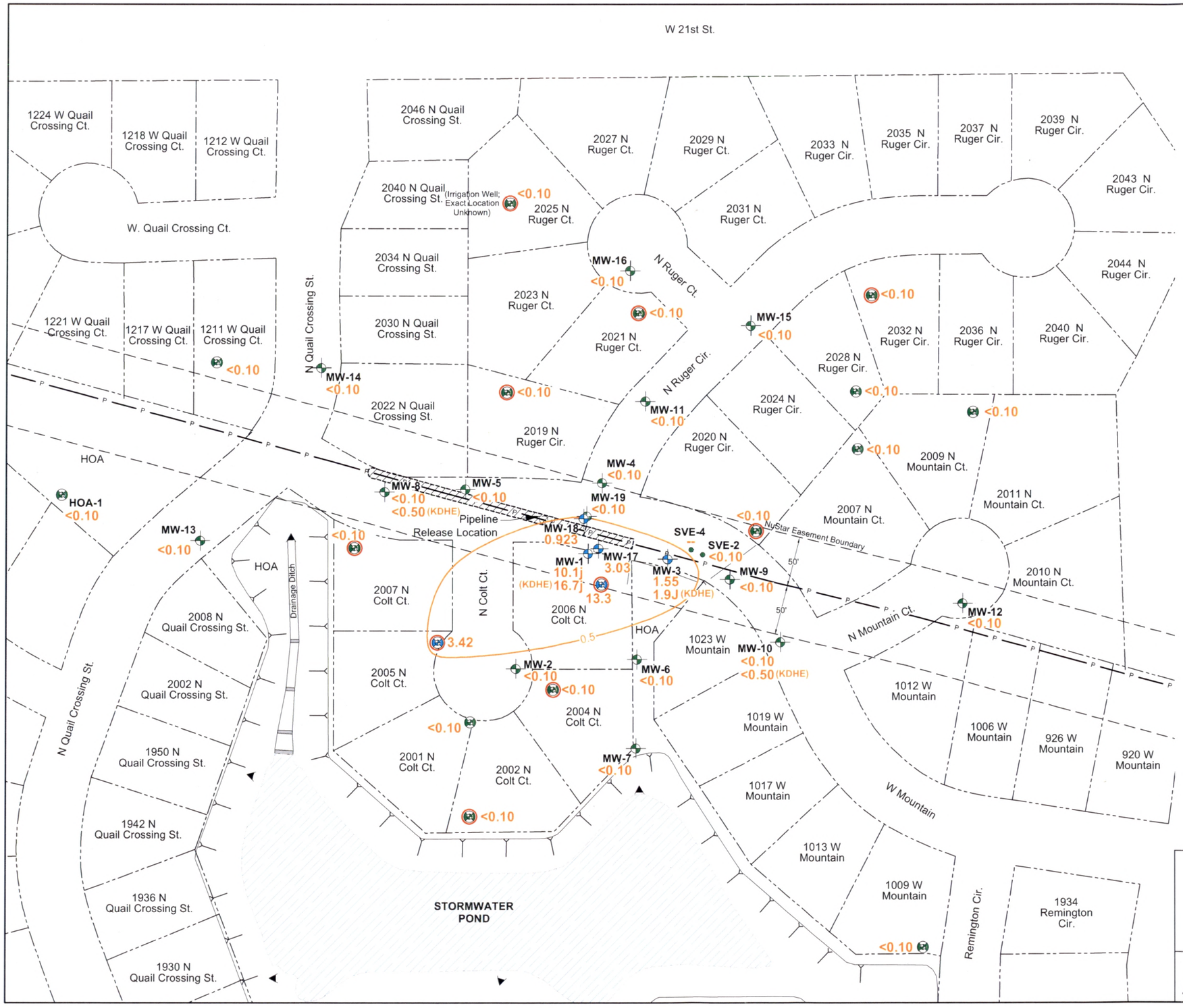
Project Number	1641-10	Figure
June 2016		4



Benzene and Naphthalene Concentrations in Groundwater (March 2016)

First Quarter 2016 Groundwater Monitoring Report
NuStar Pipeline Operating Partnership L.P.
Andover, Kansas

APEX Apex Companies, LLC 3015 SW First Avenue Portland, Oregon 97201	Project Number	1641-10	Figure
	June 2016		5



Legend:

- MW-1 / 10.1j — Monitoring Well Location; Gasoline-Range Organics (GRO) Concentration in mg/L
- (KDHE) — Indicates a GRO Split Sample Location
- <0.10 — Indicates GRO was Not Detected
- J — Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit. (See Appendix C for Details)
- j — Estimated concentration - The relative percent difference between the primary and duplicate sample concentrations is greater than 30 percent. (See Appendix C for Details)
- 0.5 — GRO Isoconcentration Contour
- Irrigation Well; Deactivated Wells =
- Property Line
- Pipeline
- Pipeline Easement Boundary
- Stormwater Discharge
- Energy Dissipator
- Slope Indicator
- HOA — Lot Owned by Quail Crossing Homeowner's Association
- Concentration > KDHE Tier 2 RBSV
- Not Detected or < KDHE Tier 2 RBSV
- SVE-2 — Soil Vapor Extraction Pilot Test Well (Only SVE-2 and SVE-4 Shown)

NOTES:

1) GRO was analyzed via Method 8015D during the March 2016 event. GRO in prior events was analyzed via Iowa 0A-1.
2) The higher value result of the primary and its duplicate is shown.
3) -- = Not Analyzed

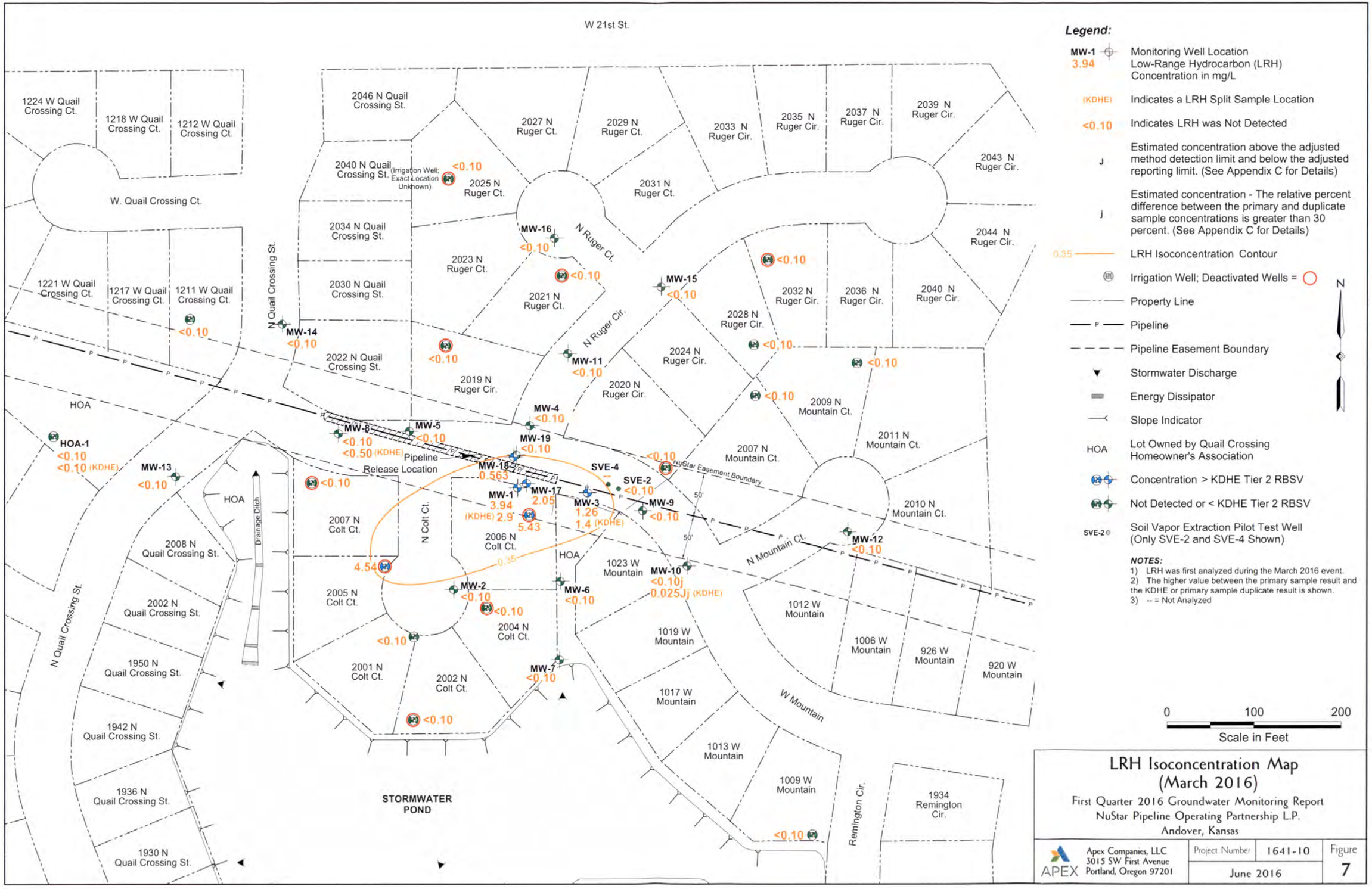
N

0 100 200
Scale in Feet

GRO Isoconcentration Map (March 2016)

First Quarter 2016 Groundwater Monitoring Report
NuStar Pipeline Operating Partnership L.P.
Andover, Kansas

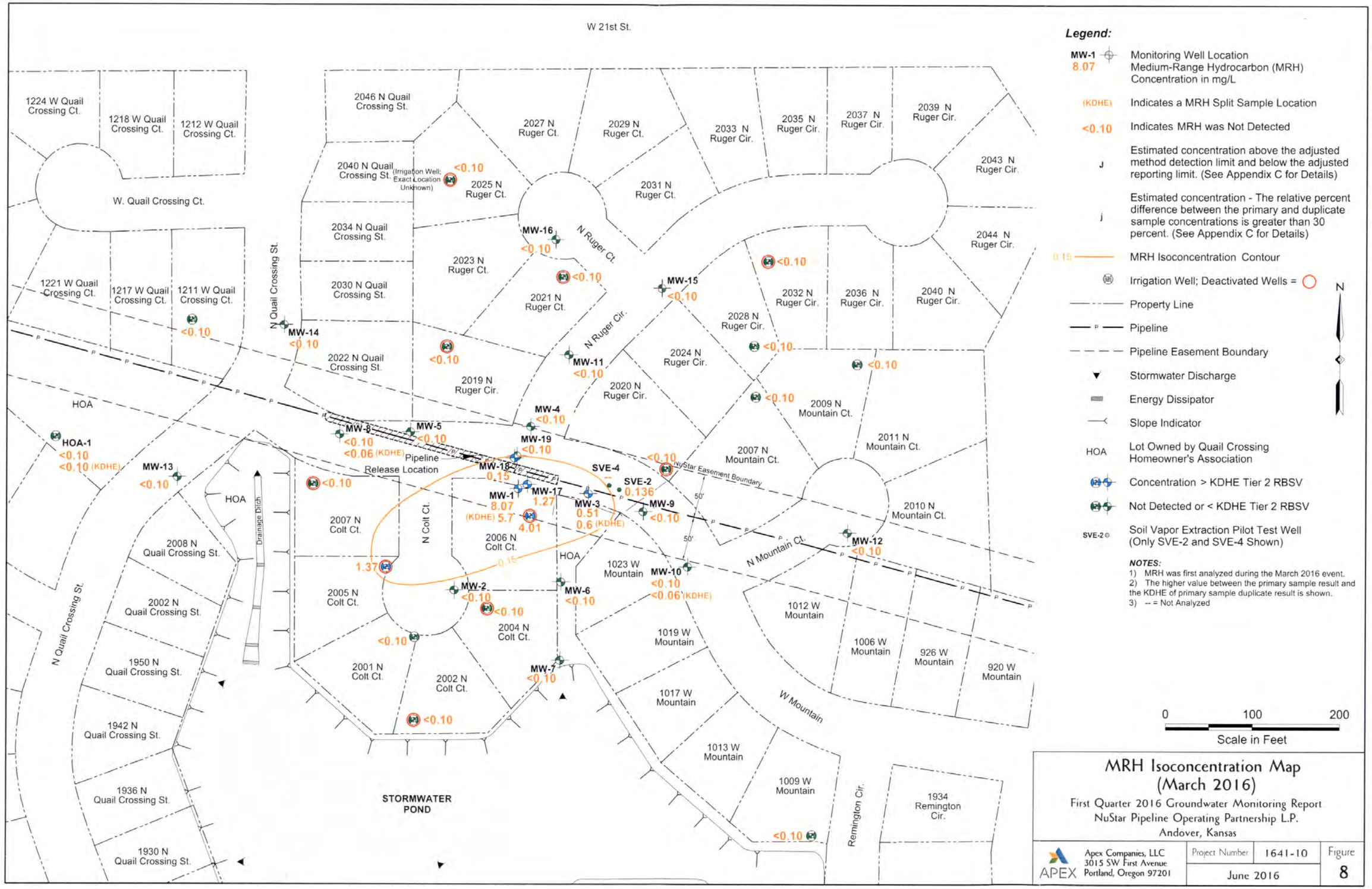
Apex Companies, LLC 3015 SW First Avenue Portland, Oregon 97201	Project Number	1641-10	Figure
	June 2016		6



LRH Isoconcentration Map (March 2016)

First Quarter 2016 Groundwater Monitoring Report
NuStar Pipeline Operating Partnership L.P.
Andover, Kansas

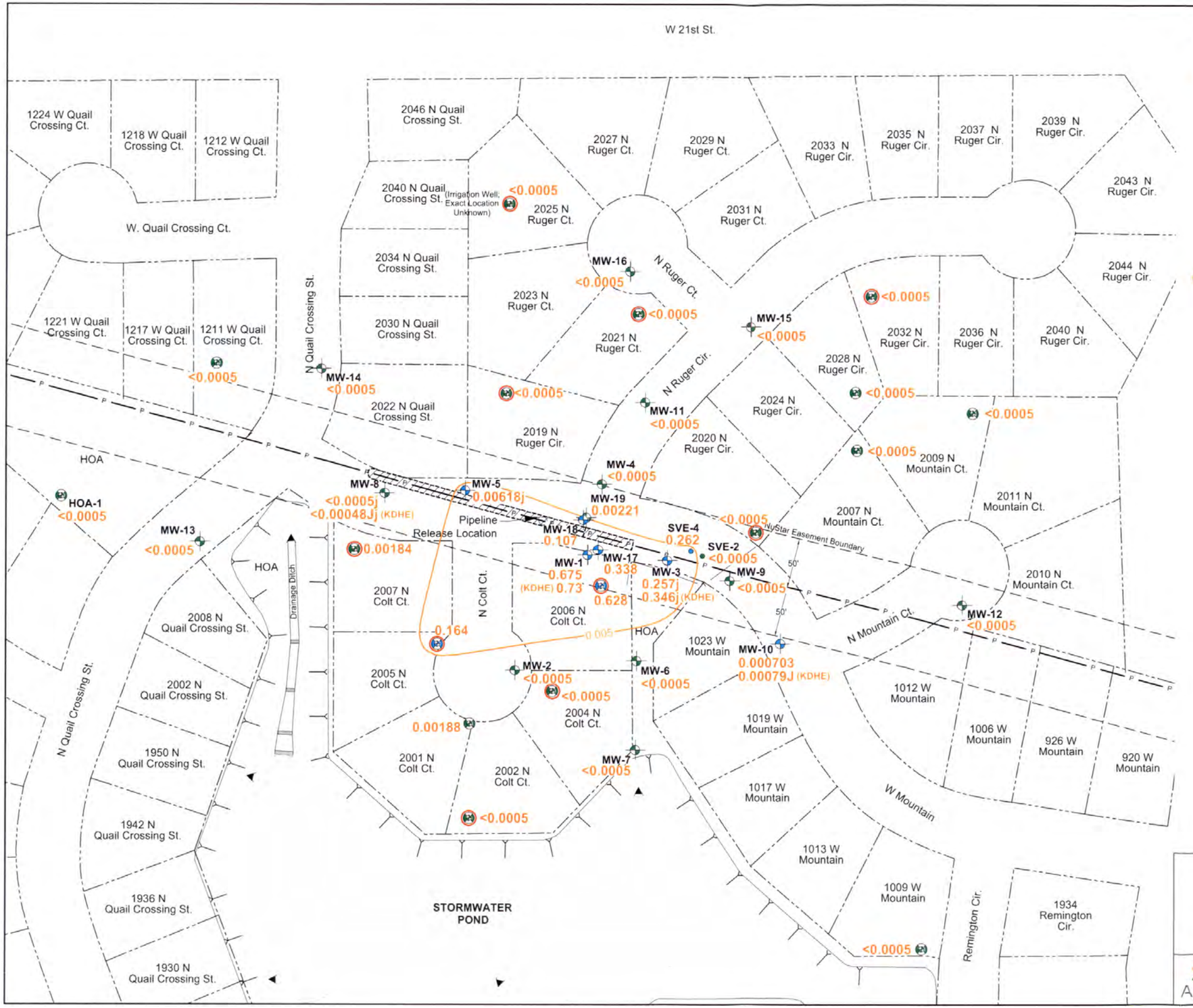
APEX	Apex Companies, LLC 3015 SW First Avenue Portland, Oregon 97201	Project Number 1641-10 June 2016	Figure 7



MRH Isoconcentration Map (March 2016)

First Quarter 2016 Groundwater Monitoring Report
NuStar Pipeline Operating Partnership L.P.
Andover, Kansas

APEX	Apex Companies, LLC 3015 SW First Avenue Portland, Oregon 97201	Project Number 1641-10 June 2016	Figure 8



Legend:

MW-1 0.675	Monitoring Well Location Benzene Concentration in mg/L
(KDHE)	Indicates a Benzene Split Sample Location
<0.0005	Indicates Benzene was Not Detected
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit. (See Appendix C for Details)
j	Estimated concentration - The relative percent difference between the primary and duplicate sample concentrations is greater than 30 percent. (See Appendix C for Details)
0.005	Benzene Isoconcentration Contour
	Irrigation Well; Deactivated Wells =
	Property Line
	Pipeline
	Pipeline Easement Boundary
	Stormwater Discharge
	Energy Dissipator
	Slope Indicator
HOA	Lot Owned by Quail Crossing Homeowner's Association
	Concentration > KDHE Tier 2 RBSV
	Not Detected or < KDHE Tier 2 RBSV
SVE-2	Soil Vapor Extraction Pilot Test Well (Only SVE-2 and SVE-4 Shown)

NOTE:
1) The higher value result of the primary and its duplicate is shown.

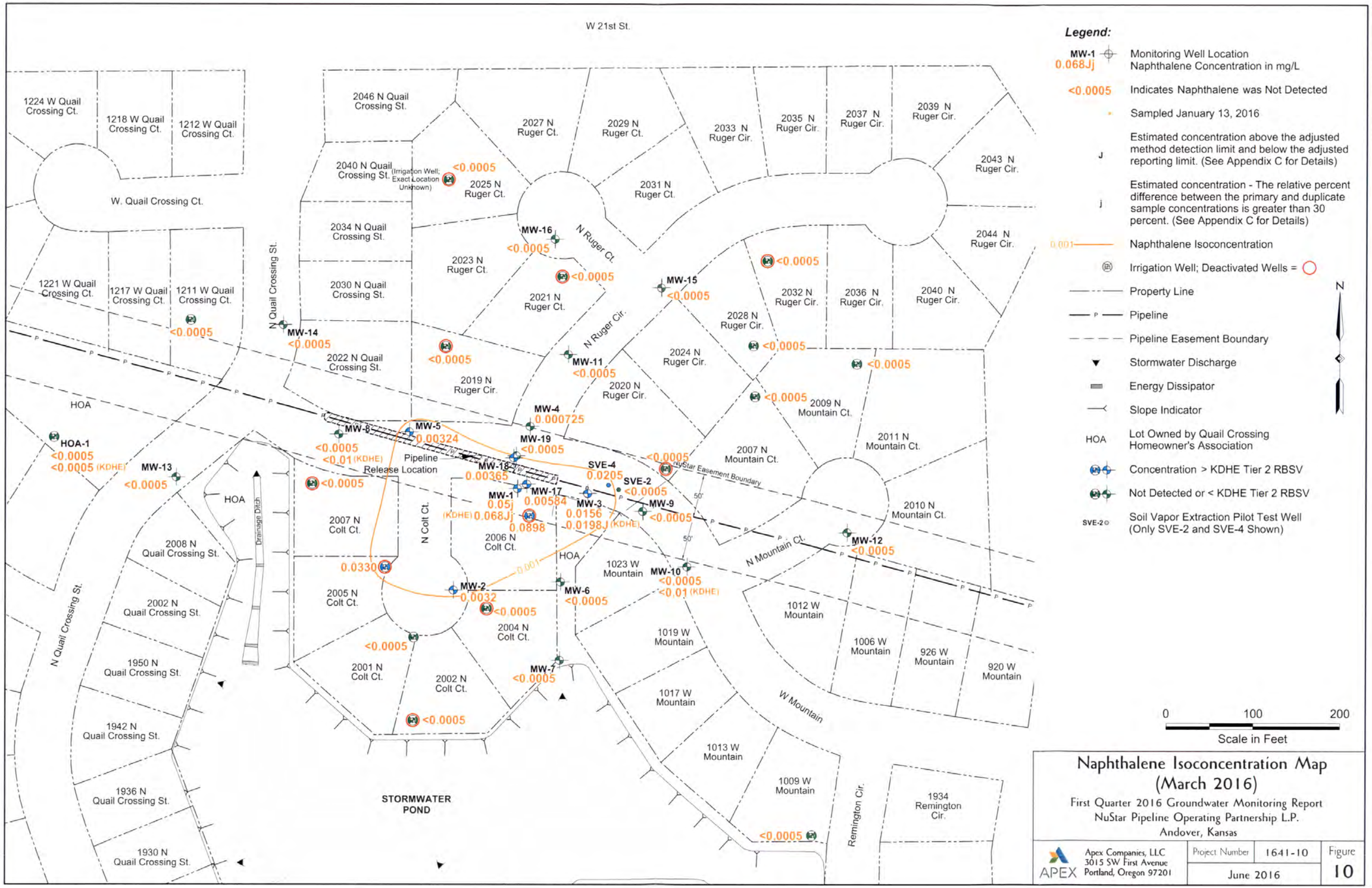
N

0 100 200
Scale in Feet

Benzene Isoconcentration Map (March 2016)

First Quarter 2016 Groundwater Monitoring Report
NuStar Pipeline Operating Partnership L.P.
Andover, Kansas

APEX	Apex Companies, LLC 3015 SW First Avenue Portland, Oregon 97201	Project Number 1641-10 June 2016	Figure 9



Naphthalene Isoconcentration Map (March 2016)

First Quarter 2016 Groundwater Monitoring Report
NuStar Pipeline Operating Partnership L.P.
Andover, Kansas

APEX	Apex Companies, LLC 3015 SW First Avenue Portland, Oregon 97201	Project Number 1641-10 June 2016	Figure 10

Appendix A

Field Data Sheets

WELL GAGING DATA SHEET

APEX

		Job Number:	32000641-08
Client:	NuStar	Date:	1/13/15
Project:	Andover Q.C.	Sampler:	TA
Weather:	Sunny, 40s	Time In/Out:	

WATER LEVEL DATA

Well I.D.	Time	Depth to Free Product (feet)	Depth to Water (feet)	Depth to Well Bottom (feet)	Product Thickness (feet)	Water Column Height (feet)	Notes/Other Remarks
MW-1	1422	—	31.19				Hydrocarbon odor
MW-2	1341	—	32.73				
MW-3	1312	—	32.61				
MW-4	1420	—	29.95				
MW-5	1356	—	19.95				
MW-6	1338	—	20.51				
MW-7	1334	—	15.75				
MW-8	1353	—	20.53				
MW-9	1309	—	28.32				
MW-10	1306	—	27.04				
MW-11	1418	—	28.51				
MW-12	1302	—	28.00				
MW-13	1350	—	31.41				
MW-14	1346	—	31.53				
MW-15	1415	—	30.10				
MW-16	1412	—	28.29				
MW-17	~~1334~~	—	~~15.75~~				DTW: 31.37 Time: 1429 Hydrocarbon odor
MW-18	1435	—	30.56				
MW-19	1433	—	30.47				
SVE-1	1325	—	26.11				— see below —
SVE-2	1328	—	26.95				Hydrocarbon odor, dark residue on IP tape
SVE-3	1318	—	29.25				Hydrocarbon odor
SVE-4	1322	—	29.04				Hydrocarbon odor
2006 N. Colt Ct.	1610	—	37.27				Skimmer stained mostly black, ~30ml water in skimmer, no product
Pond	1333	—	1344.5				in Ft. A.M.S.L.
							pond frozen over

4.12

WELL GAUGING DATA SHEET

APEX

		Job Number:	32000641-083
Client:	NuStar	Date:	2/16/16
Project:	Andover Q.C.	Sampler:	TA
Weather:	Sunny, 40's	Time In/Out:	

WATER LEVEL DATA

	Well I.D.	Time	Depth to Free Product (feet)	Depth to Water (feet)	Depth to Well Bottom (feet)	Product Thickness (feet)	Water Column Height (feet)	Notes/Other Remarks
	MW-1	1358	–	31.34				
	MW-2	1355	–	32.69				
	MW-3	1408	–	23.13				
	MW-4	1412	–	30.16				
	MW-5	1247	–	20.49				
	MW-6	1351	–	21.49				
	MW-7	1348	–	16.51				
	MW-8	1245	–	21.26				
	MW-9	1347	–	28.32				
	MW-10	1345	–	26.97				
	MW-11	1300	–	28.97				
	MW-12	1340	–	27.92				
	MW-13	1242	–	31.49				
	MW-14	1238	–	31.78				
	MW-15	1255	–	29.81				
	MW-16	1251	–	28.64				
	MW-17	1404	–	31.46				
	MW-18	1426	–	30.72				
	MW-19	1427	–	30.69				
E	SVE-4	1417	–	29.01	29.66			
C	SVE-1	1419	–	26.71				
W	SVE-2	1423	–	27.97				
grass	SVE-3	1415	–	29.31	29.75			
	pond	1352	—				—	1344.50' ASL
	2006 Lotek	1438	–	36.89				~5mL F.P. in skimmer, no H_2O
	irrigation well							skimmer coated with black residue (VOC odor)

WELL GAGING DATA SHEET

APEX

		Job Number:	320001641-10
Client:	Nustar	Date:	3/21/16
Project:	Andover QC	Sampler:	LB
Weather:	Sunny/ 50's	Time In/Out:	—

WATER LEVEL DATA

Well I.D.	Time	Depth to Free Product (feet)	Depth to Water (feet)	Depth to Well Bottom (feet)	Product Thickness (feet)	Water Column Height (feet)	Notes/Other Remarks
MW-1	NA	NP	31.34	—	NA		
MW-2			33.89				
MW-3			34.77				
MW-4			30.29				
MW-5			21.05				
MW-6			22.22				
MW-7			16.65				
MW-8			22.04				
MW-9			29.66				
MW-10			28.43				
MW-11			28.87				
MW-12			30.36				
MW-13			31.92				
MW-14			32.20				
MW-15			31.22				
MW-16			29.33				
MW-17			32.03				
MW-18			30.82				
MW-19			30.79	—			
SVE-1			26.83	29.56			
SVE-2			28.22	28.98			
SVE-3			29.35	29.79			
SVE-4			29.02	29.66			
POND	—	—	4.5 + 1340	—	—		
			→ 1344.5				

WELL MONITORING DATA SHEET

APEX

Well I.D.	MW-1	Job Number:	1641-10
Client:	Nustar	Date:	3/23/16
Project:	Andover QC	Sampler:	CB
Weather:	Sunny 70's Wind	Time In/Out:	—

WELL DATA

Well Depth:		Well Diameter:	4"	Water Height	
Depth to Water:	31.34	Screened Interval:		x Multiplier	
Water Column Length:		Depth to Free Product:		x Casing Volumes	
Purge Volume:		Free Product Thickness:		= Purge Volume	
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:	Bladder	Pump Intake Depth:	33.0 ft bgs	Comments	
Sampling Method:	"	Tubing Type:	LDPE		

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp (°C)	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-0.5° C	+/-5%	+/- 0.5 ppm	+/-20mV	+/-10%	<-- Stabilization Criteria
1129	450	450	31.40	150	7.23	17.51	1.559	2.20	-52.9	—	AC
1132	450	900	31.54	150	6.97	16.71	1.540	2.00	-65.5	—	SC
1135	450	1350	31.63	150	6.98	16.58	1.537	3.41	-71.3	—	SC
1138	450	1800	31.85	150	7.04	16.57	1.537	4.45	-74.6	—	SCL
1141	450	2250	31.97	150	7.09	16.59	1.535	5.13	-75.3	—	CL
1144	450	2700	32.08	150	7.15	16.68	1.534	5.78	-76.1	—	CL
1147	450	3150	32.18	150	7.20	16.60	1.532	6.17	-76.0	—	CL
1150	450	3600	32.30	150	7.26	16.61	1.530	6.52	-75.6	—	CL
1153	450	4050	32.50	150	7.30	16.73	1.528	6.75	-75.1	—	CL
1156	450	4500	32.50	150	7.36	16.75	1.522	6.60	-73.7	—	

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	MW-1	Sampling Flow Rate	200	Analytical Laboratory:	ESC
Sample Time:	1158	Final Depth to Water:	33.07	Did Well Dewater?	NO

# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
3x40 mL	HCL	VOC/GRO	yes (no)			
3x40 mL		MRH	yes (no)			
2x40 mL		LRH	yes (no)			
			yes no			
			yes no			
			yes no			

COMMENTS

SPLIT w/KDHE

WELL MONITORING DATA SHEET

APEX

Well I.D.	MW-2	Job Number:	1641-10
Client:	Nustar	Date:	3/21/16
Project:	Andover QC	Sampler:	LB
Weather:	60's Sunny	Time In/Out:	—

WELL DATA

Well Depth:		Well Diameter:	2"	Water Height	
Depth to Water:	33.89	Screened Interval:		x Multiplier	
Water Column Length:		Depth to Free Product:		x Casing Volumes	
Purge Volume:		Free Product Thickness:		= Purge Volume	
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:	Bladder	Pump Intake Depth:	36 ft bgs	Comments	
Sampling Method:	"	Tubing Type:	LDPE		

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp (°C)	Cond (µS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-0.5° C	+/-5%	+/- 0.5 ppm	+/-20mV	+/-10%	<-- Stabilization Criteria
1604	600	600	34.11	200	7.70	17.56	0.799	4.60	130.9	—	SC
1607	525	1125	34.29	175	7.42	17.00	0.813	3.97	134.1	—	SC
1610	525	1650	34.31	175	7.31	16.82	0.811	3.61	131.6	—	SC
1613	525	2175	34.54	175	7.28	16.82	0.809	3.70	129.4	—	SC
1616	525	2700	34.61	175	7.28	16.82	0.808	3.99	127.2	—	AC

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	MW-2	Sampling Flow Rate	200	Analytical Laboratory:	ESC
Sample Time:	1616	Final Depth to Water:	—	Did Well Dewater?	NO

# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
3x40 mL	HCL	VOC/GRO	yes (no)	NA		
3x40 mL	1	MRH	yes (no)	1		
2x40 mL	1	LRH	yes (no)	1		
			yes no			
			yes no			
			yes no			

COMMENTS

WELL MONITORING DATA SHEET

APEX

Well I.D.	MW-3	Job Number:	1641-16
Client:	Nustar	Date:	3/23/16
Project:	Andover QC	Sampler:	TA/LB
Weather:	Sunny 70's wind	Time In/Out:	—

WELL DATA

Well Depth:		Well Diameter:	2"	Water Height	
Depth to Water:	~~MW-3~~ 34.77	Screened Interval:		x Multiplier	
Water Column Length:		Depth to Free Product:		x Casing Volumes	
Purge Volume:		Free Product Thickness:		= Purge Volume	
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:	Bladder	Pump Intake Depth:	~~34.77~~ 37.0		Comments
Sampling Method:	"	Tubing Type:	LDPE		

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp (°C)	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-0.5° C	+/-5%	+/- 0.5 ppm	+/-20mV	+/-10%	<-- Stabilization Criteria
1013	450	450	35.43	150	7.50	18.61	0.636	4.51	-69.9	—	AC
1016	450	900	35.45	150	7.18	17.17	0.734	3.65	-91.9	—	AC
1019	600	1500	35.47	200	7.27	16.66	0.742	5.05	-101.5	—	AC
1022	600	2100	35.49	200	7.34	16.60	0.787	4.75	-98.0	—	AC
1025	600	2700	35.50	200	7.34	16.53	0.807	4.83	-93.9	—	AC

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	MW-3	Sampling Flow Rate	200 mL	Analytical Laboratory:	ESC
Sample Time:	1027	Final Depth to Water:	35.45	Did Well Dewater?	NO

# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
3x40 mL	HCL	VOC/GRO	yes (no)			
3x40 mL		MRH	yes (no)			
2x40 mL		LRH	yes (no)			
			yes no			
			yes no			
			yes no			

COMMENTS

Split w/ KDHE

WELL MONITORING DATA SHEET

APEX

Well I.D.	MW-4	Job Number:	1641-10
Client:	Nustar	Date:	3/22/16
Project:	Andover QC	Sampler:	LB
Weather:		Time In/Out:	—

WELL DATA

Well Depth:		Well Diameter:	2"	Water Height	
Depth to Water:	30.29	Screened Interval:		x Multiplier	
Water Column Length:		Depth to Free Product:		x Casing Volumes	
Purge Volume:		Free Product Thickness:		= Purge Volume	
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:	Bladder	Pump Intake Depth:	32.0 ft bgs	Comments	
Sampling Method:	—	Tubing Type:	LDPE		

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (L/min)	pH	Temp (°C)	Cond (µS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-0.5° C	+/-5%	+/- 0.5 ppm	+/-20mV	+/-10%	<-- Stabilization Criteria
1218	450	450	30.35	150	7.70	18.00	1.176	4.93	52.8	—	SC
1221	450	900	30.57	150	7.31	17.42	1.176	3.83	60.6	—	SC
1224	450	1350	30.65	150	7.20	17.23	1.174	3.73	57.1	—	SC
1227	450	1800	30.74	150	7.16	17.23	1.173	3.87	52.7	—	SC
1230	450	2250	30.83	150	7.15	17.21	1.722	3.69	49.8	—	SC

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	MW-4	Sampling Flow Rate	160	Analytical Laboratory:	ESC
Sample Time:	1235	Final Depth to Water:	30.74	Did Well Dewater?	NO

# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
3x40 mL	HCL	VOC/GRO	yes (no)			
3x40 mL	"	MRH	yes (no)			
2x40 mL		LRH	yes (no)			
			yes no			
			yes no			
			yes no			

COMMENTS

2019 N Ruger 1245 and Dup-3
2020 N Ruger 1300
2028 N Ruger 1315
2032 N Ruger 1325
2021 N Ruger 1340
2025 N Ruger 1350

WELL MONITORING DATA SHEET

APEX

Well I.D.	MW-5	Job Number:	1641-16
Client:	Nustar	Date:	3/22
Project:	Andover QC	Sampler:	
Weather:	Sunny 70's wind	Time In/Out:	

WELL DATA

Well Depth:		Well Diameter:	2"	Water Height	
Depth to Water:	21.05	Screened Interval:		x Multiplier	
Water Column Length:		Depth to Free Product:		x Casing Volumes	
Purge Volume:		Free Product Thickness:		= Purge Volume	
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:	Bladder	Pump Intake Depth:	23.00 ft bgs	Comments	
Sampling Method:	"	Tubing Type:	LDPE		

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (L/min)	pH	Temp (°C)	Cond (µS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-0.5° C	+/-5%	+/- 0.5 ppm	+/-20mV	+/-10%	<-- Stabilization Criteria
1510	450	450	21.13	150	7.57	18.50	1.385	1.74	35.1	—	SC
1513	450	900	21.32	150	7.17	17.69	1.381	0.87	36.9	—	SC
1516	450	1350	21.38	150	7.15	17.70	1.380	0.97	36.5	—	SC
1519	450	1800	21.46	150	7.11	17.64	1.378	0.82	34.7	—	C

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	MW-5	Sampling Flow Rate	160	Analytical Laboratory:	ESC
Sample Time:	1520	Final Depth to Water:	21.52	Did Well Dewater?	NO

# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
3x40 mL	HCL	VOC/GRO	yes (no)			Dup-4
3x40 mL		MRH	yes (no)			
2x40 mL		LRH	yes (no)			
			yes no			
			yes no			
			yes no			

COMMENTS

HOA-1 1550
1211 QC 1605
1009 MB 1620

WELL MONITORING DATA SHEET

APEX

Well I.D.	MW-6	Job Number:	1641-10
Client:	Nustar	Date:	3/22/16
Project:	Andover QC	Sampler:	LB
Weather:	Sunny 60's wind	Time In/Out:	—

WELL DATA

Well Depth:		Well Diameter:	2"	Water Height	
Depth to Water:	22.22	Screened Interval:		x Multiplier	
Water Column Length:		Depth to Free Product:		x Casing Volumes	
Purge Volume:		Free Product Thickness:		= Purge Volume	
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:	Bladder	Pump Intake Depth:	24 ft bgs	Comments	
Sampling Method:	"	Tubing Type:	LDPE		

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (L/min)	pH	Temp (°C)	Cond (µS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-0.5° C	+/-5%	+/- 0.5 ppm	+/-20mV	+/-10%	<-- Stabilization Criteria
1031	~~30~~ 450	450	21.89	150	7.67	15.64	0.802	4.40	112.7	—	SC
1034	450	900	22.39	150	7.40	15.76	0.886	4.29	117.5	—	SC
1037	450	1350	22.57	150	7.34	15.79	0.885	4.22	117.6	—	SC
1040	450	1800	22.69	150	7.31	15.90	0.863	4.00	117.2	—	SC

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	MW-6	Sampling Flow Rate	160	Analytical Laboratory:	ESC
Sample Time:	1040	Final Depth to Water:	23.05	Did Well Dewater?	NO

# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
3x40mL	HCL	VOC/GRO	yes (no)			
3x40mL		MRH	yes (no)			
2x40mL		LRH	yes (no)			
			yes no			
			yes no			
			yes no			

COMMENTS

WELL MONITORING DATA SHEET

APEX

Well I.D.	MW-7	Job Number:	1641-10
Client:	Nixtar	Date:	3/22/16
Project:	Andover QC	Sampler:	LB
Weather:	Sunny	Time In/Out:	—

WELL DATA

Well Depth:		Well Diameter:	2"	Water Height	
Depth to Water:	16.65	Screened Interval:		x Multiplier	
Water Column Length:		Depth to Free Product:		x Casing Volumes	
Purge Volume:		Free Product Thickness:		= Purge Volume	
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:	Bladder	Pump Intake Depth:	19 ft bgs	Comments	
Sampling Method:	"	Tubing Type:	LDPE		

Time	Volume Purged (~~liters~~ mL)	Cumulative Volume Purged (~~liters~~ mL)	DTW (btc)	Purge Rate (mL/min)	pH	Temp (°C)	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-0.5° C	+/-5%	+/- 0.5 ppm	+/-20mV	+/-10%	<-- Stabilization Criteria
1005	450	450	16.96	150	8.04	15.84	0.752	1.00	129.9	—	CL
1008	450	900	16.77	150	7.66	15.54	0.752	0.52	134.0	—	CL
1011	450	1350	16.83	150	7.53	15.61	0.752	0.51	133.1	—	CL
1014	450	1800	16.85	150	7.46	15.66	0.752	0.49	129.6	—	CL
1017	450	2250	16.88	150	7.43	15.67	0.752	0.52	126.7	—	CL

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	MW-7	Sampling Flow Rate	160	Analytical Laboratory:	ESC
Sample Time:	1020	Final Depth to Water:	16.92	Did Well Dewater?	NO

# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
3x40mL	HCL	VOC/GRO	yes (no)			
3x40mL	↓	MRH	yes (no)			
2x40mL	↓	LRH	yes (no)			
			yes no			
			yes no			
			yes no			

COMMENTS

WELL MONITORING DATA SHEET

APEX

Well I.D.	MW-8	Job Number:	1641-10
Client:	Nustar	Date:	3/23/16
Project:	Andover QC	Sampler:	LB/TA
Weather:	Sunny 70's wind	Time In/Out:	—

WELL DATA

Well Depth:		Well Diameter:	2"	Water Height	
Depth to Water:	22.04	Screened Interval:		x Multiplier	
Water Column Length:		Depth to Free Product:		x Casing Volumes	
Purge Volume:		Free Product Thickness:		= Purge Volume	
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:	Bladder	Pump Intake Depth:	24 ft bgs	Comments	
Sampling Method:	"	Tubing Type:	LDPE		

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (L/min)	pH	Temp (°C)	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-0.5° C	+/-5%	+/- 0.5 ppm	+/-20mV	+/-10%	<-- Stabilization Criteria
1050	600	600	22.24	200	7.81	18.01	1.089	4.20	-22.4	—	SC
1053	600	1200	22.34	200	7.42	17.83	1.113	3.87	-12.6	—	SC
1056	600	1800	22.36	200	7.28	17.70	1.164	3.55	-6.6	—	SC
1059	600	2400	22.36	200	7.25	17.65	1.173	3.47	-4.1	—	SC
1102	600	3000	22.38	200	7.23	17.60	1.184	3.40	-1.6	—	SC

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	MW-8	Sampling Flow Rate	200 mL	Analytical Laboratory:	ESC
Sample Time:	1105	Final Depth to Water:	22.25	Did Well Dewater?	NO

# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
3x40 mL	HCL	VOC/GRO	yes (no)			
3x40 mL		MRH	yes (no)			
2x40 mL		LRH	yes (no)			
			yes no			
			yes no			
			yes no			

COMMENTS

Split w/KDHE

WELL MONITORING DATA SHEET

APEX

Well I.D.	MW-9	Job Number:	1641-10
Client:	NuStar	Date:	3/22/16
Project:	Andover QC	Sampler:	LB
Weather:	Sunny 60s wind	Time In/Out:	—

WELL DATA

Well Depth:		Well Diameter:	2"	Water Height	
Depth to Water:	29.66	Screened Interval:		x Multiplier	
Water Column Length:		Depth to Free Product:		x Casing Volumes	
Purge Volume:		Free Product Thickness:		= Purge Volume	
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:	Bladder	Pump Intake Depth:	32.0 ft bgs	Comments	
Sampling Method:	"	Tubing Type:	LDPE		

Time	Volume Purged ~~(liters)~~ mL	Cumulative Volume Purged ~~(liters)~~ mL	DTW (btc)	Purge Rate mL/min)	pH	Temp (°C)	Cond (µS/cm) mS	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-0.5° C	+/-5%	+/- 0.5 ppm	+/-20mV	+/-10%	<-- Stabilization Criteria
0923	300	300	29.85	150	7.35	15.78	1.070	1.99	151.4	—	SC
0926	~~300~~ 450	~~1200~~ 750	29.92	150	7.24	15.81	1.071	1.87	150.6	—	SC
0929	~~300~~ 450	~~2100~~ 1200	29.99	150	7.18	15.99	1.071	1.82	149.0	—	AC
0932	~~300~~ 450	~~3000~~ 1650	29.99	150	7.15	16.00	1.070	1.78	146.6	—	AC

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	MW-9	Sampling Flow Rate	160	Analytical Laboratory:	ESC
Sample Time:	0935	Final Depth to Water:	30.22	Did Well Dewater?	NO

# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
3x40mL	HCL	VOC/GRO	yes (no)		/	Dup-1
3x40mL	↓	MRH	yes (no)			↓
2x40mL	↓	LRH	yes (no)		/	
			yes no			
			yes no			
			yes no			

COMMENTS

WELL MONITORING DATA SHEET

APEX

Well I.D.	MW-10	Job Number:	1641-10
Client:	Nustar	Date:	3/23/16
Project:	Andover QC	Sampler:	LB/TA
Weather:	Sunny 70's Wind	Time In/Out:	—

WELL DATA

Well Depth:		Well Diameter:	2"	Water Height	
Depth to Water:	28.43	Screened Interval:		x Multiplier	
Water Column Length:		Depth to Free Product:		x Casing Volumes	
Purge Volume:		Free Product Thickness:		= Purge Volume	
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:	Bladder	Pump Intake Depth:	31.0 ft bgs	Comments	
Sampling Method:	"	Tubing Type:	LDPE		

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (L/min)	pH	Temp (°C)	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-0.5° C	+/-5%	+/- 0.5 ppm	+/-20mV	+/-10%	<-- Stabilization Criteria
0928	600	600	28.62	200	7.34	17.12	1.293	1.51	147.6	—	~~EC~~ AC
0931	450	1050	28.82	150	7.06	17.00	1.306	0.49	129.4	—	AC
0934	450	1500	28.99	150	7.02	16.96	1.279	0.43	97.0	—	AC
0937	450	1950	29.15	150	7.00	16.95	1.261	0.40	78.3	—	AC
0940	450	2400	29.30	150	6.99	17.00	1.248	0.35	62.0	—	AC
0943	450	2850	29.48	150	6.99	16.95	1.241	0.34	51.0	—	AC
0946	450	3300	29.64	150	6.98	17.02	1.234	0.31	45.1	—	AC

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	MW-10	Sampling Flow Rate	200 ml/min	Analytical Laboratory:	ESC
Sample Time:	0948	Final Depth to Water:	30.50	Did Well Dewater?	NO

# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
3x 40mL	HCl	VOC/GRO	yes (no)			
3x 40mL	↓	MRH	yes (no)			
2x 40mL		LRH	yes (no)			
			yes no			
			yes no			
			yes no			

COMMENTS

Split w/KDHE

WELL MONITORING DATA SHEET

APEX

Well I.D.	MW-11	Job Number:	1641-10
Client:	Nustar	Date:	3/21/16
Project:	Andover QC	Sampler:	LB
Weather:	Sunny 60's	Time In/Out:	—

WELL DATA

Well Depth:		Well Diameter:	2"	Water Height	
Depth to Water:	28.87	Screened Interval:		x Multiplier	
Water Column Length:		Depth to Free Product:		x Casing Volumes	
Purge Volume:		Free Product Thickness:		= Purge Volume	
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:	Bladder	Pump Intake Depth:	31 ft bgs	Comments	
Sampling Method:	"	Tubing Type:	LDPE		

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (L/min)	pH	Temp (°C)	Cond (nS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-0.5° C	+/-5%	+/- 0.5 ppm	+/-20mV	+/-10%	<-- Stabilization Criteria
1747	450	450	29.20	150	7.48	17.51	1.433	2.48	132.9	—	CL
1750	450	900	29.32	150	7.22	17.37	1.438	2.65	134.2	—	CL
1753	450	1350	29.60	150	7.15	17.26	1.437	3.29	131.7	—	CL
1756	450	1800	29.73	150	7.14	17.26	1.437	3.50	129.6	—	CL
1759	450	2250	29.87	150	7.15	17.19	1.438	3.48	128.3	—	CL
1760											

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	MW-11	Sampling Flow Rate	160	Analytical Laboratory:	ESL
Sample Time:	1759	Final Depth to Water:	30.26	Did Well Dewater?	NO

# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
3x40mL	HCL	VOC/GRO	yes (no)	NA		
3x40mL	↓	MRH	yes (no)	↓		
2x40mL	↓	LRH	yes (no)	↓		
			yes no			
			yes no			
			yes no			

COMMENTS

WELL MONITORING DATA SHEET

APEX

Well I.D.	MW-12	Job Number:	1641-10
Client:	Nustar	Date:	3/22/16
Project:	Andover QC	Sampler:	LB
Weather:	Sunny 50's Wind	Time In/Out:	—

WELL DATA

Well Depth:		Well Diameter:	2"	Water Height	
Depth to Water:	30.36	Screened Interval:		x Multiplier	
Water Column Length:		Depth to Free Product:		x Casing Volumes	
Purge Volume:		Free Product Thickness:		= Purge Volume	
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:	Bladder	Pump Intake Depth:	33.0 ft bgs	Comments	
Sampling Method:	"	Tubing Type:	LDPE		

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp (°C)	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-0.5° C	+/-5%	+/- 0.5 ppm	+/-20mV	+/-10%	<-- Stabilization Criteria
0834	600	600	30.38	200	7.82	15.18	0.894	2.30	157.5	—	CL
0837	450	1050	30.37	150	7.46	15.80	0.901	1.04	156.5	—	CL
0840	450	1500	30.39	150	7.33	16.14	0.902	0.88	154.5	—	CL
0843	450	1950	30.39	150	7.29	16.11	0.902	0.77	151.9	—	CL
0846	450	2400	30.39	150	7.26	16.31	0.901	0.72	149.5	—	CL

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	MW-12	Sampling Flow Rate	160	Analytical Laboratory:	ESC
Sample Time:	0850	Final Depth to Water:	—	Did Well Dewater?	NO

# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
3x40mL	HCL	VOC/GRO	yes (no)	NA		
3x40mL	1	MRH	yes (no)	1		
2x40mL		LRH	yes (no)			
			yes no			
			yes no			
			yes no			

COMMENTS

2007 Mt 0845
2009 Mt 0905

WELL MONITORING DATA SHEET

APEX

Well I.D.	MW-13	Job Number:	1641-10
Client:	Nustar	Date:	3/21/16
Project:	Andover QC	Sampler:	LB
Weather:	Sunny 60's	Time In/Out:	—

WELL DATA

Well Depth:		Well Diameter:	2"	Water Height	
Depth to Water:	31.92	Screened Interval:		x Multiplier	
Water Column Length:		Depth to Free Product:		x Casing Volumes	
Purge Volume:		Free Product Thickness:		= Purge Volume	
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:	Bladder	Pump Intake Depth:	33 ft bgs	Comments
Sampling Method:	"	Tubing Type:	LDPE	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (L/min)	pH	Temp (°C)	Cond (µS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-0.5° C	+/-5%	+/- 0.5 ppm	+/-20mV	+/-10%	<-- Stabilization Criteria
1524	600	600	32.40	200	7.19	16.84	0.744	8.32	123.3	—	CL
1527	525	1125	32.50	175	7.30	16.87	0.743	8.32	125.5	—	CL
1530	525		32.55	175	7.39	16.76	0.742	8.34	128.0	—	CL
1533	525		32.60	175	7.40	16.76	0.741	8.37	128.9	—	CL

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	MW-13	Sampling Flow Rate	160	Analytical Laboratory:	ESC
Sample Time:	1535	Final Depth to Water:	—	Did Well Dewater?	NO

# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
3x40mL	HCL	VOC/GRO	yes (no)	NA		—
3x40mL	1	MRH	yes (no)	1		—
2x40mL	1	LRH	yes (no)	1	—	
			yes no			
			yes no			
			yes no			

COMMENTS

WELL MONITORING DATA SHEET

APEX

Well I.D.	MW-14	Job Number:	1641-10
Client:	NuStar	Date:	3/22/16
Project:	AndoverQC	Sampler:	LB
Weather:	Sunny 50's wind	Time In/Out:	—

WELL DATA

Well Depth:		Well Diameter:	2"	Water Height	
Depth to Water:	32.20	Screened Interval:		x Multiplier	
Water Column Length:		Depth to Free Product:		x Casing Volumes	
Purge Volume:		Free Product Thickness:		= Purge Volume	
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:	Bladder	Pump Intake Depth:	35 ft bgs	Comments
Sampling Method:	"	Tubing Type:	LDPE	

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (L/min)	pH	Temp (°C)	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-0.5° C	+/-5%	+/- 0.5 ppm	+/-20mV	+/-10%	<-- Stabilization Criteria
0758	600	600	32.41	200	7.71	14.90	0.675	8.23	142.6	—	CL
0801	450	1050	32.67	150	7.68	14.73	0.675	8.35	144.8	—	CL
0804	450	1500	32.80	150	7.63	14.65	0.675	8.42	148.7	—	CL
0807	450	1950	32.95	150	7.61	14.72	0.676	8.38	150.7	—	CL

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	MW-14	Sampling Flow Rate	160	Analytical Laboratory:	ESC
Sample Time:	0810	Final Depth to Water:	32.60	Did Well Dewater?	NO

# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
3x40 mL	HCL	VOC/GRO	yes no			
3x40 mL		MRH	yes no			
2x40 mL		LRH	yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

WELL MONITORING DATA SHEET

APEX

Well I.D.	MW-15	Job Number:	1641-10
Client:	Nustar	Date:	3/21/16
Project:	Andover QL	Sampler:	LB
Weather:	Sunny/ 60's	Time In/Out:	—

WELL DATA

Well Depth:		Well Diameter:	2"	Water Height	
Depth to Water:	31.22	Screened Interval:		x Multiplier	
Water Column Length:		Depth to Free Product:		x Casing Volumes	
Purge Volume:		Free Product Thickness:		= Purge Volume	
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:	Bladder	Pump Intake Depth:	3.3 ft bgs
Sampling Method:	"	Tubing Type:	LDPE

Comments

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (L/min)	pH	Temp (°C)	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-0.5° C	+/-5%	+/- 0.5 ppm	+/-20mV	+/-10%	<-- Stabilization Criteria
1641	600	600	31.79	200	7.81	17.48	0.701	7.60	79.9	—	CL
1644	600	1200	31.82	200	7.59	17.22	0.705	7.10	93.6	—	CL
1647	600	1800	32.03	200	7.49	17.22	0.713	6.60	99.7	—	CL
1650	450	2250	32.03	150	7.42	17.38	0.722	6.27	102.5	—	CL
1653	450	2700	32.10	150	7.39	17.34	0.736	6.20	104.4	—	CL

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	MW-15	Sampling Flow Rate	160	Analytical Laboratory:	ESC
Sample Time:	1653	Final Depth to Water:	31.60	Did Well Dewater?	NO

# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
3x40mL	HCL	VOC/GRC	yes (no)	NA		
3x40mL	↓	MRH	yes (no)	↓		
2x40mL	↓	LKH	yes (no)	↓		
			yes no			
			yes no			
			yes no			

COMMENTS

WELL MONITORING DATA SHEET

APEX

Well I.D.	MW-16	Job Number:	1641-10
Client:	Nustar	Date:	3/21/16
Project:	Andover QC	Sampler:	LB
Weather:	Sunny 60's	Time In/Out:	—

WELL DATA

Well Depth:		Well Diameter:	2"	Water Height	
Depth to Water:	29.33	Screened Interval:		x Multiplier	
Water Column Length:		Depth to Free Product:		x Casing Volumes	
Purge Volume:		Free Product Thickness:		= Purge Volume	
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:	Bladder	Pump Intake Depth:	32 ft bgs
Sampling Method:	"	Tubing Type:	LDPE

Comments

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (L/min)	pH	Temp (°C)	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-0.5° C	+/-5%	+/- 0.5 ppm	+/-20mV	+/-10%	<-- Stabilization Criteria
1714	450	450	29.44	150	7.48	17.63	0.865	6.16	114.2	—	CL
1717	450	900	29.79	150	7.42	17.52	0.869	6.32	115.8	—	CL
1720	450	1350	29.89	150	7.37	17.26	0.889	6.90	119.2	—	CL
1723	450	1800	30.00	150	7.41	17.28	0.897	7.10	120.0	—	CL
1726	450	2250	30.42	150	7.46	17.18	0.893	~~7.40~~ 7.32	121.2	—	CL

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	MW-16	Sampling Flow Rate	160	Analytical Laboratory:	ESC
Sample Time:	1726	Final Depth to Water:	30.40	Did Well Dewater?	NO

# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
3x40 mL	HCL	VOC/GRO	yes (no)	NA		
3x40 mL	"	MRH	yes (no)	"		
2x40 mL	"	LRH	yes (no)	"		
			yes no			
			yes no			
			yes no			

COMMENTS

WELL MONITORING DATA SHEET

APEX

Well I.D.	MW-17	Job Number:	1641-10
Client:	Nustar	Date:	3/22/16
Project:	Andover QC	Sampler:	LB/TA
Weather:	Sunny 70's Wind	Time In/Out:	—

WELL DATA

Well Depth:		Well Diameter:	2"	Water Height	
Depth to Water:	32.03	Screened Interval:		x Multiplier	
Water Column Length:		Depth to Free Product:		x Casing Volumes	
Purge Volume:		Free Product Thickness:		= Purge Volume	
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:	Bladder	Pump Intake Depth:	34.0 ft bgs	Comments	
Sampling Method:	"	Tubing Type:	LDPE		

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (L/min)	pH	Temp (°C)	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-0.5° C	+/-5%	+/- 0.5 ppm	+/-20mV	+/-10%	<-- Stabilization Criteria
1056	300	300	32.14	.150	7.43	16.41	0.954	1.56	-16.3	—	AC
1059	450	750	32.49	.150	7.07	16.31	0.956	0.49	-64.9	—	AC
1102	450	1200	32.80	.150	7.02	16.36	0.956	0.37	-76.8	—	AC
1105	450	1650	33.02	.150	7.03	16.36	0.958	0.34	-87.1	—	AC
1108	450	2100	33.18	.150	7.03	16.30	0.958	0.35	-93.7	—	AC

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	MW-17	Sampling Flow Rate	.200	Analytical Laboratory:	ESC
Sample Time:	11:11	Final Depth to Water:	33.39	Did Well Dewater?	No

# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
3x40mL	HCL	VOC/GRO	yes (no)			
3x40mL		MRH	yes (no)			
2x40mL		LRH	yes (no)			
			yes no			
			yes no			
			yes no			

COMMENTS

2004 N Colt 1130 + Dup-2

2002 N Colt 1145

2006 N Colt 1210

WELL MONITORING DATA SHEET

APEX

Well I.D.	MW-18	Job Number:	1641-10
Client:	Nustar	Date:	3/22/16
Project:	Andover QC	Sampler:	CB/TA
Weather:	Sunny 70's Wind	Time In/Out:	—

WELL DATA

Well Depth:		Well Diameter:	2"	Water Height	
Depth to Water:	30.82	Screened Interval:		x Multiplier	
Water Column Length:		Depth to Free Product:		x Casing Volumes	
Purge Volume:		Free Product Thickness:		= Purge Volume	
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:	Bladder	Pump Intake Depth:	33 ft bgs	Comments	
Sampling Method:	"	Tubing Type:	LDPE		

Time	Volume Purged (liters) mL	Cumulative Volume Purged ~~mL (liters)~~	DTW (btc)	Purge Rate mL/min	pH	Temp (°C)	Cond (µS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-0.5° C	+/-5%	+/- 0.5 ppm	+/-20mV	+/-10%	<-- Stabilization Criteria
1408	450	450	31.05	150	7.85	19.04	0.905	1.32	-9.5	—	"
1411	450	900	31.44	150	7.48	18.59	0.905	0.70	~~-50~~ -52.9	—	"
1414	450	1350	31.61	150	7.29	18.27	0.904	0.53	-71.8	—	"
1417	450	1800	31.82	150	7.21	18.26	0.902	0.44	-78.8	—	"
1420	450	2250	32.01	150	7.18	18.13	0.899	0.45	-80.0	—	"
1423	300	2550	32.27	100	7.15	18.21	0.899	0.48	-78.5	—	"

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	MW-18	Sampling Flow Rate	150	Analytical Laboratory:	ESC
Sample Time:	1425	Final Depth to Water:	32.46	Did Well Dewater?	NO

# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID*
3x40 mL	HCL	VOC/GRO	yes (no)			
3x40 mL		MRH	yes (no)			
2x40 mL		CRH	yes (no)			
			yes no			
			yes no			
			yes no			

COMMENTS

WELL MONITORING DATA SHEET

APEX

Well I.D.	MW-19	Job Number:	1641-10
Client:	NuStar	Date:	3/22/16
Project:	Andover QC	Sampler:	LB/TA
Weather:	70's sunny Wind	Time In/Out:	—

WELL DATA

Well Depth:		Well Diameter:	2"	Water Height	
Depth to Water:	30.79	Screened Interval:		x Multiplier	
Water Column Length:		Depth to Free Product:		x Casing Volumes	
Purge Volume:		Free Product Thickness:		= Purge Volume	
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:	Bladder	Pump Intake Depth:	33.00 ft bgs	Comments	
Sampling Method:	"	Tubing Type:	LDPE		

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (mL/min)	pH	Temp (°C)	Cond (mS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-0.5° C	+/-5%	+/- 0.5 ppm	+/-20mV	+/-10%	<-- Stabilization Criteria
1441	~~300~~ 450	450	30.99	150	7.72	19.67	0.826	4.00	-6.2	—	SC
1445	450	900	31.40	150	7.34	17.91	0.824	2.23	-2.6	—	SC
1448	450	1350	31.65	150	7.29	17.75	0.824	2.38	-3.0	—	SC
1451	450	1800	32.04	150	7.26	17.77	0.825	2.45	-2.4	—	SC

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	MW-19	Sampling Flow Rate	160	Analytical Laboratory:	ESC
Sample Time:	1455	Final Depth to Water:	32.45	Did Well Dewater?	NO

# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
3x40 mL	HCL	VOC/GRO	yes (no)			
3x40 mL		MRH	yes (no)			
2x40 mL		LRH	yes (no)			
			yes no			
			yes no			
			yes no			

COMMENTS

WELL MONITORING DATA SHEET

APEX

Well I.D.	SVE-#2	Job Number:	1641-10
Client:	Nostar	Date:	3/23/16
Project:	Andover QL	Sampler:	TA/LB
Weather:	Sunny 7Ms wind	Time In/Out:	—

WELL DATA

Well Depth:	28.98	Well Diameter:	2"	Water Height	
Depth to Water:	28.22	Screened Interval:		x Multiplier	
Water Column Length:		Depth to Free Product:		x Casing Volumes	
Purge Volume:		Free Product Thickness:		= Purge Volume	
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:	Bailer	Pump Intake Depth:		Comments	
Sampling Method:	"	Tubing Type:			

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (L/min)	pH	Temp (°C)	Cond (µS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-0.5° C	+/-5%	+/- 0.5 ppm	+/-20mV	+/-10%	<-- Stabilization Criteria

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	SVE-2	Sampling Flow Rate		Analytical Laboratory:	ESC
Sample Time:	1550	Final Depth to Water:		Did Well Dewater?	Yes

# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
3x40 mL	HCL	VOC/GRO	yes (no)			
2x40 mL	"	LRH	yes (no)			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Bailed dry 3/22/16 → well went dry before entire sample could be collected

WELL MONITORING DATA SHEET

APEX

Well I.D.	SVE-B3	Job Number:	1641-10
Client:	Nustar	Date:	3/23/16
Project:	Andover QC	Sampler:	TA/LB
Weather:	Sunny 70's wind	Time In/Out:	—

WELL DATA

Well Depth:	29.75	Well Diameter:	2"	Water Height	
Depth to Water:	29.35	Screened Interval:		x Multiplier	
Water Column Length:		Depth to Free Product:		x Casing Volumes	
Purge Volume:		Free Product Thickness:		= Purge Volume	
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:	Bailer	Pump Intake Depth:		Comments
Sampling Method:	"	Tubing Type:		

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (L/min)	pH	Temp (°C)	Cond (µS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-0.5° C	+/-5%	+/- 0.5 ppm	+/-20mV	+/-10%	<-- Stabilization Criteria

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	SVE-B3	Sampling Flow Rate		Analytical Laboratory:	ESC
Sample Time:	[illegible]	Final Depth to Water:		Did Well Dewater?	Yes

# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Bailed dry 3/22/16 → No water recharge on 3/23/16 to collect any vials.

WELL MONITORING DATA SHEET

APEX

Well I.D.	SVE-4	Job Number:	1641-10
Client:	Nustar	Date:	3/23/16
Project:	Andover QC	Sampler:	TA / LB
Weather:	Sunny 70's wind	Time In/Out:	—

WELL DATA

Well Depth:	29.66	Well Diameter:	2"	Water Height	
Depth to Water:	29.02	Screened Interval:		x Multiplier	
Water Column Length:		Depth to Free Product:		x Casing Volumes	
Purge Volume:		Free Product Thickness:		= Purge Volume	
Water Height Multipliers (gal)	1-inch = 0.041	2-inch = 0.162	4-inch = 0.653	1 gallon = 3.785 liters	

PURGING DATA

Purge Method:	Bailer	Pump Intake Depth:		Comments
Sampling Method:	"	Tubing Type:		

Time	Volume Purged (liters)	Cumulative Volume Purged (liters)	DTW (btc)	Purge Rate (L/min)	pH	Temp (°C)	Cond (µS/cm)	DO (ppm)	ORP (mV)	Turbidity (NTUs)	Clarity/Color Other Remarks
					+/-0.1	+/-0.5° C	+/-5%	+/- 0.5 ppm	+/-20mV	+/-10%	<-- Stabilization Criteria

Clarity: VC = very cloudy, Cl = Cloudy, SC = slightly cloudy, AC = almost clear, C = clear

SAMPLING DATA

Sample ID:	SVE-4	Sampling Flow Rate		Analytical Laboratory:	ESC
Sample Time:	1600	Final Depth to Water:		Did Well Dewater?	Yes

# Containers/Type	Preservative	Analysis/Method	Field Filtered	Filter Size	MS/MSD	Duplicate ID
3x40mL	HCL	VOC	yes (no)	—	—	—
			yes no			
			yes no			
			yes no			
			yes no			
			yes no			

COMMENTS

Bailed dry 3/22/16 ⇒ well went dry on 3/23 before entire sample could be collected.

Apex Companies, LLC- Portland, OR

3015 SW First Avenue
Portland, OR 97201-4707

Billing Information:
Accounts Payable- Cindi Joy Staller
3015 SW First Avenue
Portland, OR 97201-4707

Report to: Samuel Jackson

Email To: SJackson@apexcos.com; TAlfred@apexcos.com; TCochran@apexcos.com

Project Description: **Andover Colt Court Release Site**

City/State Collected:

Phone: 503-924-4704
Fax: 503-943-6357

Client Project #

Lab Project # ASHCREPOR-NUSTARCOLT

Collected by (print):

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X__Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 3

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L #

Table #

Acctnum: ASHCREPOR
Template: T110556
Prelogin: P545846
TSR: 358 - Jarred Willis
PB: 4/1/16
Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TPHKSLVI (MRH) 40mlAmb-HCl	V8260LL (VOCs 8260) 40mlAmb-HCl	V8260LL- Trip Blank 40mlAmb-HCl-Blk	VPHKS (LRH) 40mlAmb HCl	GRO						Rem./Contaminant	Sample # (lab only)
MW-1	Grab	GW	28.0	3/23/16	1158	8	✓	✓		✓	✓							
MW-2		GW	36.0	3/21/16	1616	8	✓	✓		✓	✓							
MW-3		GW	37.0	3/23/16	1027	8	✓	✓		✓	✓							
MW-4		GW	32.0	3/22/16	1235	8	✓	✓		✓	✓							
MW-5		GW	23.0	3/22/16	1520	8	✓	✓		✓	✓							
MW-6		GW	24.0	3/22/16	1040	8	✓	✓		✓	✓							
MW-7		GW	19.0	3/22/16	1020	8	✓	✓		✓	✓							
MW-8		GW	24.0	3/23/16	1105	8	✓	✓		✓	✓							
MW-9		GW	32.00	3/22/16	0935	8	✓	✓		✓	✓							
MW-10		GW	31.0	3/23/16	0948	8	✓	✓		✓	✓							

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:V8260LL= BTEX, 1,2-DCA, Naphthalene, 1,2,4-TMB, 1,3,5-TMB, n-butylbenzene, n-propylbenzene

pH _____ Temp _____
Flow _____ Other _____

Hold #

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____	Condition: (lab use only)
[signature]	3/24/16	1330			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	COC Seal Intact: ___Y ___N ___NA
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	pH Checked: NCF:

Apex Companies, LLC- Portland, OR

3015 SW First Avenue
Portland, OR 97201-4707

Billing Information:
Accounts Payable- Cindi Joy Staller
3015 SW First Avenue
Portland, OR 97201-4707

Report to: Samuel Jackson

Email To: SJackson@apexcos.com; TAlfred@apexcos.com; TCochran@apexcos.com

Project Description: Andover Colt Court Release Site

City/State Collected:

Phone: 503-924-4704
Fax: 503-943-6357

Client Project #

Lab Project # ASHCREPOR-NUSTARCOLT

Collected by (print):

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X__Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 2 of 3

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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L #

Table #

Acctnum: ASHCREPOR
Template: T110556
Prelogin: P545846
TSR: 358 - Jarred Willis
PB: 11/16 . 6
Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TPHKSLVI (MRH) 40mlAmb-HCl	V8260LL (VOCs 8260) 40mlAmb-HCl	V8260LL- Trip Blank 40mlAmb-HCl-Blk	VPHKS (LRH) 40mlAmb HCl	GRO						Rem./Contaminant	Sample # (lab only)
MW-11	Grab	GW	31.0	3/21/16	1759	8	✓	✓		✓	✓							
MW-12		GW	33.0	3/22/16	0850	8	✓	✓		✓	✓							
MW-13		GW	33.0	3/21/16	1535	8	✓	✓		✓	✓							
MW-14		GW	35.0	3/22/16	0810	8	✓	✓		✓	✓							
MW-15		GW	~~1653~~ 33.0	3/21/16	1653	8	✓	✓		✓	✓							
MW-16		GW	32.0	3/21/16	1726	8	✓	✓		✓	✓							
MW-17		GW	34.0	3/22/16	1111	8	✓	✓		✓	✓							
MW-18		GW	33.0	3/22/16	1425	8	✓	✓		✓	✓							
MW-19		GW	33.0	3/22/16	1455	8	✓	✓		✓	✓							
SVE-2		GW	—	3/23/16	1550	5	✓	✓		✓	✓							

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: V8260LL= BTEX, 1,2-DCA, Naphthalene, 1,2,4-TMB, 1,3,5-TMB, n-butylbenzene, n-propylbenzene

pH _____ Temp _____
Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____	Condition: (lab use only)
J. Bindert	3/24/16	1330			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	COC Seal Intact: ____Y ____N ____NA
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	pH Checked: NCF:

Chain of Custody Page 3 of 3

ESC LAB SCIENCES

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L #

Table #

Acctnum: ASHCREPOR
Template: T110556
Prelogin: P545846
TSR: 358 - Jarred Willis
PB: 4/1/16

Shipped Via: FedEX Ground

Apex Companies, LLC- Portland, OR
3015 SW First Avenue
Portland, OR 97201-4707

Billing Information:
Accounts Payable- Cindi Joy Staller
3015 SW First Avenue
Portland, OR 97201-4707

Report to: Samuel Jackson

Email To: SJackson@apexcos.com; TAlfred@apexcos.com; TCochran@apexcos.com

Project Description: Andover Colt Court Release Site

City/State Collected:

Phone: 503-924-4704
Fax: 503-943-6357

Client Project #

Lab Project # ASHCREPOR-NUSTARCOLT

Collected by (print):

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X__Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TPHKSLVI (MRH) 40mlAmb-HCl	V8260LL (VOCs 8260) 40mlAmb-HCl	V8260LL- Trip Blank 40mlAmb-HCl-Blk	VPHKS (LRH) 40mlAmb HCl	GRO						Rem./Contaminant	Sample # (lab only)
SVE-3	Grab	GW	—	3/23/16	—	0	—	—	—	—								
SVE-4	↓	GW	—	3/23/16	1600	3		✓										
TRIP BLANK	—	GW	—	—	—				✓									
TRIP BLANK	—	GW	—	—	—				✓									
		GW																
		GW																
		GW																
		GW																
		GW																

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:V8260LL= BTEX, 1,2-DCA, Naphthalene, 1,2,4-TMB, 1,3,5-TMB, n-butylbenzene, n-propylbenzene

pH _____ Temp _____
Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____	Condition: (lab use only)
for Bonacci	3/24/16	1330			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	COC Seal Intact: ___Y ___N ___NA
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	pH Checked: NCF:

Apex Companies, LLC- Portland, OR

3015 SW First Avenue
Portland, OR 97201-4707

Billing Information:
Accounts Payable- Cindi Joy Staller
3015 SW First Avenue
Portland, OR 97201-4707

Report to: Samuel Jackson

Email To: SJackson@apexcos.com; TAlfred@apexcos.com; TCochran@apexcos.com

Project Description: Andover Release Site - Quail Crossing

City/State Collected:

Phone: 503-924-4704
Fax: 503-943-6357

Client Project # E3CE-0065

Lab Project # ASHCREPOR-NUANDQUAIL

Collected by (print):

Site/Facility ID # ANDOVER QUAIL CROSSING

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X__Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 3

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Phone: 800-767-5859
Fax: 615-758-5859

LR:

Table #

Acctnum: ASHCREPOR
Template: T107889
Prelogin: P545844
TSR: 358 - Jarred Willis
PB: 3-11-16 Gm
Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TPHKSLVI (MRH) 40mlAmb-HCl	V8260LL (VOCs 8260) 40mlAmb-HCl	V8260LL- Trip Blank 40mlAmb-HCl-Blk	VPHKS (LRH) 40mlAmb HCl	GRO						Rem./Contaminant	Sample # (lab only)
2001 N COLT CT	Grab	GW	—	3/21/16	1215	8	✓	✓		✓	✓							
2002 N COLT CT		GW		3/22/16	1145	8	✓	✓		✓	✓							
2004 N COLT CT		GW		3/21/16	1240	8	✓	✓		✓	✓							
2005 N COLT CT		GW		3/21/16	1155	8	✓	✓		✓	✓							
2006 N COLT CT		GW		3/22/16	1210	8	✓	✓		✓	✓							
HOA-1		GW			1550	8	✓	✓		✓	✓							
2007 N COLT CT		GW			1130	8	✓	✓		✓	✓							
2019 N RUGER CIR		GW			1245	8	✓	✓		✓	✓							
2020 N RUGER CIR		GW			1300	8	✓	✓		✓	✓							
2028 N RUGER CIR		GW			1315	8	✓	✓		✓	✓							

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:V8260LL= BTEX, 1,2-DCA, Naphthalene, 1,2,4-TMB, 1,3,5-TMB, n-butylbenzene, n-propylbenzene

pH _____ Temp _____
Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____	Condition: (lab use only)
Jim Bindra	3/24/16	1330			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	COC Seal Intact: ____Y ____N ____NA
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	pH Checked: NCF:

Apex Companies, LLC- Portland, OR

3015 SW First Avenue
Portland, OR 97201-4707

Billing Information:
Accounts Payable- Cindi Joy Staller
3015 SW First Avenue
Portland, OR 97201-4707

Report to: Samuel Jackson

Email To: SJackson@apexcos.com; TAlfred@apexcos.com; TCochran@apexcos.com

Project Description: Andover Release Site - Quail Crossing

City/State Collected:

Phone: 503-924-4704
Fax: 503-943-6357

Client Project #: E3CE-0065

Lab Project #: ASHCREPOR-NUANDQUAIL

Collected by (print):

Site/Facility ID #: ANDOVER QUAIL CROSSING

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X__Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 2 of 3

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Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L #

Table #

Acctnum: ASHCREPOR
Template: T107889
Prelogin: P545844
TSR: 358 - Jarred Willis
PB: 3-1-16 Gm
Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TPHKSLVI (MRH) 40mlAmb-HCl	V8260LL (VOCs 8260) 40mlAmb-HCl	V8260LL- Trip Blank 40mlAmb-HCl-Blk	VPHKS (LRH) 40mlAmb HCl	GRO						Rem./Contaminant	Sample # (lab only)
2032 N RUGER CIR	Grab	GW		3/22/16	1325	8	✓	✓		✓	✓							
2021 N RUGER CIR		GW			1340	8	✓	✓		✓	✓							
2025 N RUGER CIR		GW			1350	8	✓	✓		✓	✓							
1009 W MOUNTAIN		GW			1620	8	✓	✓		✓	✓							
2007 N MOUNTAIN CT		GW			0845	8	✓	✓		✓	✓							
2009 N MOUNTAIN CT		GW			0905	8	✓	✓		✓	✓							
1211 W QUAIL CROSSING		GW			1605	8	✓	✓		✓	✓							
TRIP BLANK		GW				1			✓									
TRIP BLANK		GW				1			✓									
		GW																

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: V8260LL= BTEX, 1,2-DCA, Naphthalene, 1,2,4-TMB, 1,3,5-TMB, n-butylbenzene, n-propylbenzene

pH _____ Temp _____
Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ ____	Condition: (lab use only)
Joe Bendicar	3/24/16	1330			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	COC Seal Intact: ____ Y ____ N ____ NA
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	pH Checked: NCF:

Apex Companies, LLC- Portland, OR

3015 SW First Avenue
Portland, OR 97201-4707

Billing Information:
Accounts Payable- Cindi Joy Staller
3015 SW First Avenue
Portland, OR 97201-4707

Report to: Samuel Jackson

Email To: SJackson@apexcos.com; TAlfred@apexcos.com; TCochran@apexcos.com

Project Description: Andover Release Site - Quail Crossing

City/State Collected:

Phone: 503-924-4704
Fax: 503-943-6357

Client Project #: E3CE-0065

Lab Project #: ASHCREPOR-NUANDQUAIL

Collected by (print):

Site/Facility ID #: ANDOVER QUAIL CROSSING

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X__Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 3 of 3

ESC LAB SCIENCES

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L #

Table #

Acctnum: ASHCREPOR
Template: T107889
Prelogin: P545844
TSR: 358 - Jarred Willis
PB: 3-11-16 Gm

Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TPHKSLVI (MRH) 40mlAmb-HCl	V8260LL (VOCs 8260) 40mlAmb-HCl	V8260LL- Trip Blank 40mlAmb-HCl-Blk	VPHKS (LRH) 40mlAmb HCl	GRD						Rem./Contaminant	Sample # (lab only)
Dup-3	Grab	GW	—	3/22/16	—	8	✓	✓		✓	✓							
Dup-2	↓	GW	—	3/22/16	—	8	✓	✓		✓	✓							
		GW																
		GW																

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:V8260LL= BTEX, 1,2-DCA, Naphthalene, 1,2,4-TMB, 1,3,5-TMB, n-butylbenzene, n-propylbenzene

pH _____ Temp _____
Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ ____	Condition: (lab use only)
[signature]	3/24/16	1330			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	COC Seal Intact: ___Y ___N ___NA
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	pH Checked: NCF:

Table B-1
Groundwater Gauging Data
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
	8/8/2013					24.64	--	--	1327.49
	8/13/2013					24.36	--	--	1327.77
	8/21/2013					23.79	--	--	1328.34
	8/28/2013					25.21	--	--	1326.92
	9/5/2013					27.19	--	--	1324.94
	9/11/2013					25.93	--	--	1326.20
	9/17/2013					25.92	--	--	1326.21
	9/23/2013					28.49	--	--	1323.64
	9/30/2013					23.00	--	--	1329.13
	10/10/2013					25.28	--	--	1326.85
	10/17/2013					26.21	--	--	1325.92
	10/23/2013					23.55	--	--	1328.58
	10/31/2013					24.28	--	--	1327.85
	11/6/2013					NM	--	--	NM
	11/13/2013					23.04	--	--	1329.09
	11/20/2013					22.84	--	--	1329.29
	11/26/2013					24.88	--	--	1327.25
	12/3/2013					30.19	--	--	1321.94
	12/11/2013					31.12	--	--	1321.01
	12/19/2013					31.38	--	--	1320.75
	12/27/2013					31.50	--	--	1320.63
	1/3/2014					NM	--	--	NM
	1/10/2014					31.41	--	--	1320.72
MW-1	1/16/2014	4.0	1352.13	35.0	20-35	31.01	--	--	1321.12
	1/21/2014					31.31	--	--	1320.82
	1/27/2014					30.78	--	--	1321.35
	2/5/2014					NM	--	--	NM
	2/12/2014					NM	--	--	NM
	2/19/2014					31.75	--	--	1320.38
	2/26/2014					31.70	--	--	1320.43
	3/4/2014					31.62	--	--	1320.51
	3/13/2014					31.44	--	--	1320.69
	3/18/2014					31.41	--	--	1320.72
	3/27/2014					31.55	--	--	1320.58
	4/3/2014					31.69	--	--	1320.44
	4/7/2014					31.44	--	--	1320.69
	4/17/2014					31.44	--	--	1320.69
	4/22/2014					31.45	--	--	1320.68
	4/29/2014					31.80	--	--	1320.33
	5/8/2014					31.75	--	--	1320.38
	5/13/2014					31.49	--	--	1320.64
	5/20/2014					31.50	--	--	1320.63
	5/29/2014					30.49	--	--	1321.64
	6/3/2014					31.64	--	--	1320.49
	6/10/2014					31.65	--	--	1320.48
	6/18/2014					31.50	--	--	1320.63
	6/24/2014					31.15	--	--	1320.98

Please refer to notes at end of table.

Table B-1
Groundwater Gauging Data
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
MW-1 (cont.)	7/1/2014	4.0	1352.13	35.0	20-35	31.66	--	--	1320.47
	7/10/2014					31.79	--	--	1320.34
	7/15/2014					31.82	--	--	1320.31
	7/22/2014					31.31	--	--	1320.82
	7/31/2014					31.65	--	--	1320.48
	8/5/2014					31.78	--	--	1320.35
	8/14/2014					31.73	--	--	1320.40
	8/20/2014					31.68	--	--	1320.45
	8/26/2014					31.79	--	--	1320.34
	9/3/2014					31.79	--	--	1320.34
	9/10/2014					31.71	--	--	1320.42
	9/17/2014					31.72	--	--	1320.41
	9/24/2014					31.75	--	--	1320.38
	10/1/2014					31.65	--	--	1320.48
	10/8/2014					31.89	--	--	1320.24
	10/16/2014					29.99	--	--	1322.14
	10/21/2014					31.35	--	--	1320.78
	10/28/2014					31.39	--	--	1320.74
	11/4/2014					31.72	--	--	1320.41
	11/11/2014					31.71	--	--	1320.42
	11/18/2014					31.71	--	--	1320.42
	11/25/2014					31.44	--	--	1320.69
	12/3/2014					31.67	--	--	1320.46
	12/9/2014					31.48	--	--	1320.65
	12/17/2014					31.77	--	--	1320.36
	12/23/2014					31.81	--	--	1320.32
	12/31/2014					31.44	--	--	1320.69
	1/7/2015					31.75	--	--	1320.38
	1/14/2015					31.44	--	--	1320.69
	1/20/2015					31.45	--	--	1320.68
	1/28/2015					31.42	--	--	1320.71
	2/4/2015					31.44	--	--	1320.69
	2/9/2015					31.62	--	--	1320.51
	3/20/2015					31.38	--	--	1320.75
	4/20/2015					31.39	--	--	1320.74
	5/22/2015					31.20	--	--	1320.93
	6/10/2015					31.23	--	--	1320.90
	6/15/2015					31.31	--	--	1320.82
	7/22/2015					31.29	--	--	1320.84
	8/20/2015					31.35	--	--	1320.78
	9/14/2015					31.35	--	--	1320.78
	10/20/2015					31.32	--	--	1320.81
	11/24/2015					31.35	--	--	1320.78
	12/14/2015					31.21	--	--	1320.92
	1/13/2016					31.19	--	--	1320.94
	2/16/2016					31.34	--	--	1320.79
	3/21/2016					31.34	--	--	1320.79

Please refer to notes at end of table.

Table B-1
Groundwater Gauging Data
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
MW-2	8/8/2013	2.0	1353.17	44	29-44	31.93	--	--	1321.24
	8/13/2013					31.27	--	--	1321.90
	8/21/2013					30.85	--	--	1322.32
	8/28/2013					31.45	--	--	1321.72
	9/5/2013					31.45	--	--	1321.72
	9/11/2013					32.18	--	--	1320.99
	9/17/2013					32.10	--	--	1321.07
	9/23/2013					31.66	--	--	1321.51
	9/30/2013					32.55	--	--	1320.62
	10/10/2013					29.11	--	--	1324.06
	10/17/2013					31.91	--	--	1321.26
	10/23/2013					32.47	--	--	1320.70
	10/31/2013					32.19	--	--	1320.98
	11/6/2013					31.46	--	--	1321.71
	11/13/2013					31.96	--	--	1321.21
	11/20/2013					31.19	--	--	1321.98
	11/26/2013					31.38	--	--	1321.79
	12/3/2013					30.94	--	--	1322.23
	12/11/2013					NM	--	--	NM
	12/19/2013					31.45	--	--	1321.72
	12/27/2013					NM	--	--	NM
	1/3/2014					NM	--	--	NM
	1/10/2014					NM	--	--	NM
	1/16/2014					31.21	--	--	1321.96
	1/21/2014					31.49	--	--	1321.68
	1/27/2014					31.90	--	--	1321.27
	2/5/2014					NM	--	--	NM
	2/12/2014					NM	--	--	NM
	2/19/2014					32.06	--	--	1321.11
	2/26/2014					31.96	--	--	1321.21
	3/4/2014					32.41	--	--	1320.76
	3/13/2014					32.09	--	--	1321.08
	3/18/2014					31.86	--	--	1321.31
	3/27/2014					32.09	--	--	1321.08
	4/3/2014					32.16	--	--	1321.01
	4/7/2014					32.53	--	--	1320.64
	4/17/2014					32.73	--	--	1320.44
	4/22/2014					32.99	--	--	1320.18
	4/29/2014					33.08	--	--	1320.09
	5/8/2014					33.06	--	--	1320.11
	5/13/2014					33.90	--	--	1319.27
	5/20/2014					33.77	--	--	1319.40
	5/29/2014					33.15	--	--	1320.02
	6/3/2014					33.64	--	--	1319.53
	6/10/2014					33.00	--	--	1320.17
	6/18/2014					32.56	--	--	1320.61
	6/24/2014					31.89	--	--	1321.28
	7/1/2014					32.31	--	--	1320.86

Please refer to notes at end of table.

Table B-1
Groundwater Gauging Data
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
MW-2 (cont.)	7/10/2014	2.0	1353.17	44	29-44	31.60	--	--	1321.57
	7/15/2014					31.86	--	--	1321.31
	7/22/2014					32.41	--	--	1320.76
	7/31/2014					31.91	--	--	1321.26
	8/5/2014					32.25	--	--	1320.92
	8/14/2014					32.88	--	--	1320.29
	8/20/2014					32.54	--	--	1320.63
	8/26/2014					33.00	--	--	1320.17
	9/3/2014					32.96	--	--	1320.21
	9/10/2014					32.70	--	--	1320.47
	9/17/2014					32.58	--	--	1320.59
	9/24/2014					33.38	--	--	1319.79
	10/1/2014					32.78	--	--	1320.39
	10/8/2014					32.81	--	--	1320.36
	10/16/2014					33.04	--	--	1320.13
	10/21/2014					33.07	--	--	1320.10
	10/28/2014					33.06	--	--	1320.11
	11/4/2014					33.48	--	--	1319.69
	11/11/2014					33.07	--	--	1320.10
	11/25/2014					32.88	--	--	1320.29
	12/3/2014					33.39	--	--	1319.78
	12/9/2014					33.25	--	--	1319.92
	12/17/2014					33.24	--	--	1319.93
	12/23/2014					33.10	--	--	1320.07
	12/31/2014					32.87	--	--	1320.30
	1/7/2015					NM	--	--	NM
	1/14/2015					32.90	--	--	1320.27
	1/20/2015					32.93	--	--	1320.24
	1/28/2015					32.89	--	--	1320.28
	2/4/2015					32.92	--	--	1320.25
	2/9/2015					33.15	--	--	1320.02
	3/18/2015					32.87	--	--	1320.30
	4/20/2015					36.43	--	--	1316.74
	5/22/2015					35.23	--	--	1317.94
	6/15/2015					34.83	--	--	1318.34
	7/22/2015					35.13	--	--	1318.04
	8/20/2015					36.21	--	--	1316.96
	9/14/2015					35.87	--	--	1317.30
	10/20/2015					36.23	--	--	1316.94
	11/24/2015					35.81	--	--	1317.36
	12/14/2015					34.08	--	--	1319.09
	1/13/2016					32.73	--	--	1320.44
	2/16/2016					32.69	--	--	1320.48
	3/21/2016					33.89	--	--	1319.28
MW-3	8/8/2013	2.0	1350.47	60	40-60	36.94	--	--	1313.53
	8/13/2013					34.71	--	--	1315.76
	8/21/2013					33.30	--	--	1317.17
	8/28/2013					39.26	--	--	1311.21
	9/5/2013					42.54	--	--	1307.93

Please refer to notes at end of table.

Table B-1
Groundwater Gauging Data
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
	9/11/2013					45.19	--	--	1305.28
	9/17/2013					43.52	--	--	1306.95
	9/23/2013					43.34	--	--	1307.13
	9/30/2013					43.40	--	--	1307.07
	10/10/2013					43.18	--	--	1307.29
	10/17/2013					41.23	--	--	1309.24
	10/23/2013					41.43	--	--	1309.04
	10/31/2013					41.58	--	--	1308.89
	11/6/2013					41.19	--	--	1309.28
	11/13/2013					35.98	--	--	1314.49
	11/20/2013					35.27	--	--	1315.20
	11/26/2013					34.56	--	--	1315.91
	12/3/2013					33.77	--	--	1316.70
	12/11/2013					34.04	--	--	1316.43
	12/19/2013					33.72	--	--	1316.75
	12/27/2013					33.89	--	--	1316.58
	1/3/2014					NM	--	--	NM
	1/10/2014					33.47	--	--	1317.00
	1/16/2014					33.68	--	--	1316.79
	1/21/2014					33.84	--	--	1316.63
	1/27/2014					34.04	--	--	1316.43
	2/5/2014					NM	--	--	NM
	2/12/2014					NM	--	--	NM
MW-3	2/19/2014	2.0	1350.47	60	40-60	34.00	--	--	1316.47
	2/26/2014					34.24	--	--	1316.23
	3/4/2014					34.36	--	--	1316.11
	3/13/2014					34.42	--	--	1316.05
	3/18/2014					34.35	--	--	1316.12
	3/27/2014					34.68	--	--	1315.79
	4/3/2014					35.39	--	--	1315.08
	4/7/2014					36.20	--	--	1314.27
	4/17/2014					37.95	--	--	1312.52
	4/22/2014					39.94	--	--	1310.53
	4/29/2014					41.00	--	--	1309.47
	5/8/2014					45.96	--	--	1304.51
	5/13/2014					47.00	--	--	1303.47
	5/20/2014					49.95	--	--	1300.52
	5/29/2014					47.07	--	--	1303.40
	6/3/2014					47.89	--	--	1302.58
	6/10/2014					44.14	--	--	1306.33
	6/18/2014					42.60	--	--	1307.87
	6/24/2014					41.62	--	--	1308.85
	7/1/2014					39.58	--	--	1310.89
	7/10/2014					40.35	--	--	1310.12
	7/15/2014					42.02	--	--	1308.45
	7/22/2014					42.80	--	--	1307.67
	7/31/2014					43.14	--	--	1307.33

Please refer to notes at end of table.

Table B-1
Groundwater Gauging Data
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
	8/5/2014					47.55	--	--	1302.92
	8/14/2014					45.85	--	--	1304.62
	8/20/2014					49.15	--	--	1301.32
	8/26/2014					51.32	--	--	1299.15
	9/3/2014					51.10	--	--	1299.37
	9/10/2014					51.71	--	--	1298.76
	9/17/2014					51.84	--	--	1298.63
	9/24/2014					52.93	--	--	1297.54
	10/1/2014					53.93	--	--	1296.54
	10/8/2014					53.91	--	--	1296.56
	10/16/2014					50.41	--	--	1300.06
	10/21/2014					51.06	--	--	1299.41
	10/28/2014					50.29	--	--	1300.18
	11/4/2014					51.00	--	--	1299.47
	11/11/2014					49.17	--	--	1301.30
	11/25/2014					45.30	--	--	1305.17
	12/3/2014					44.10	--	--	1306.37
	12/9/2014					43.67	--	--	1306.80
	12/17/2014					42.83	--	--	1307.64
MW-3 (cont.)	12/23/2014	2.0	1350.47	60	40-60	47.12	--	--	1303.35
	12/31/2014					29.37	--	--	1321.10
	1/7/2015					NM	--	--	NM
	1/14/2015					41.35	--	--	1309.12
	1/20/2015					41.36	--	--	1309.11
	1/28/2015					42.22	--	--	1308.25
	2/4/2015					41.12	--	--	1309.35
	2/9/2015					40.60	--	--	1309.87
	3/18/2015					41.02	--	--	1309.45
	4/20/2015					45.61	--	--	1304.86
	5/22/2015					40.21	--	--	1310.26
	6/15/2015					38.21	--	--	1312.26
	7/22/2015					39.69	--	--	1310.78
	8/20/2015					44.40	--	--	1306.07
	9/14/2015					43.33	--	--	1307.14
	10/20/2015					45.10	--	--	1305.37
	11/24/2015					39.69	--	--	1310.78
	12/14/2015					35.42	--	--	1315.05
	1/13/2016					32.61	--	--	1317.86
	2/16/2016					32.13	--	--	1318.34
	3/21/2016					34.17	--	--	1316.30
	8/8/2013					28.89	--	--	1321.84
	8/13/2013					28.85	--	--	1321.88
	8/21/2013					28.18	--	--	1322.55
	8/28/2013					28.56	--	--	1322.17
MW-4	9/5/2013	2.0	1350.73	41	26-41	29.16	--	--	1321.57
	9/11/2013					29.55	--	--	1321.18
	9/17/2013					30.06	--	--	1320.67
	9/23/2013					30.32	--	--	1320.41
	9/30/2013					30.11	--	--	1320.62

Please refer to notes at end of table.

Table B-1
Groundwater Gauging Data
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
	10/10/2013					30.45	--	--	1320.28
	10/17/2013					30.43	--	--	1320.30
	10/23/2013					30.36	--	--	1320.37
	10/31/2013					30.14	--	--	1320.59
	11/6/2013					29.78	--	--	1320.95
	11/13/2013					30.21	--	--	1320.52
	11/20/2013					29.81	--	--	1320.92
	11/26/2013					30.34	--	--	1320.39
	12/3/2013					30.64	--	--	1320.09
	12/11/2013					30.19	--	--	1320.54
	12/19/2013					30.47	--	--	1320.26
	12/27/2013					30.43	--	--	1320.30
	1/3/2014					NM	--	--	NM
	1/10/2014					29.44	--	--	1321.29
	1/16/2014					29.38	--	--	1321.35
	1/21/2014					29.53	--	--	1321.20
	1/27/2014					30.36	--	--	1320.37
	2/5/2014					NM	--	--	NM
	2/12/2014					NM	--	--	NM
	2/19/2014					30.61	--	--	1320.12
	2/26/2014					31.56	--	--	1319.17
	3/4/2014					30.54	--	--	1320.19
MW-4 (cont.)	3/13/2014	2.0	1350.73	41	26-41	30.56	--	--	1320.17
	3/18/2014					30.80	--	--	1319.93
	3/27/2014					30.72	--	--	1320.01
	4/3/2014					30.49	--	--	1320.24
	4/7/2014					30.53	--	--	1320.20
	4/17/2014					30.54	--	--	1320.19
	4/22/2014					31.02	--	--	1319.71
	4/29/2014					31.25	--	--	1319.48
	5/8/2014					31.59	--	--	1319.14
	5/13/2014					31.30	--	--	1319.43
	5/20/2014					31.73	--	--	1319.00
	5/29/2014					31.63	--	--	1319.10
	6/3/2014					32.68	--	--	1318.05
	6/10/2014					32.52	--	--	1318.21
	6/18/2014					31.71	--	--	1319.02
	6/24/2014					30.73	--	--	1320.00
	7/1/2014					30.60	--	--	1320.13
	7/10/2014					30.39	--	--	1320.34
	7/15/2014					30.56	--	--	1320.17
	7/22/2014					30.34	--	--	1320.39
	7/31/2014					30.52	--	--	1320.21
	8/5/2014					30.69	--	--	1320.04
	8/14/2014					30.61	--	--	1320.12

Please refer to notes at end of table.

Table B-1
Groundwater Gauging Data
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
MW-4 (cont.)	8/20/2014	2.0	1350.73	41	26-41	30.81	--	--	1319.92
	8/26/2014					30.73	--	--	1320.00
	9/3/2014					30.91	--	--	1319.82
	9/10/2014					30.82	--	--	1319.91
	9/17/2014					30.91	--	--	1319.82
	9/24/2014					29.98	--	--	1320.75
	10/1/2014					31.26	--	--	1319.47
	10/8/2014					31.29	--	--	1319.44
	10/16/2014					31.20	--	--	1319.53
	10/21/2014					31.11	--	--	1319.62
	10/28/2014					30.94	--	--	1319.79
	11/4/2014					31.13	--	--	1319.60
	11/11/2014					31.03	--	--	1319.70
	11/25/2014					31.35	--	--	1319.38
	12/3/2014					31.41	--	--	1319.32
	12/9/2014					31.43	--	--	1319.30
	12/17/2014					31.44	--	--	1319.29
	12/23/2014					31.52	--	--	1319.21
	12/31/2014					31.71	--	--	1319.02
	1/7/2015					NM	--	--	NM
	1/14/2015					31.52	--	--	1319.21
	1/20/2015					31.55	--	--	1319.18
	1/28/2015					31.66	--	--	1319.07
	2/4/2015					31.70	--	--	1319.03
	2/9/2015					31.75	--	--	1318.98
	3/18/2015					31.22	--	--	1319.51
	4/20/2015					34.10	--	--	1316.63
	5/22/2015					31.25	--	--	1319.48
	6/10/2015					29.28	--	--	1321.45
	6/15/2015					29.02	--	--	1321.71
	7/22/2015					29.55	--	--	1321.18
	8/20/2015					29.65	--	--	1321.08
	9/14/2015					29.60	--	--	1321.13
	10/20/2015					30.31	--	--	1320.42
	11/24/2015					30.37	--	--	1320.36
	12/14/2015					29.69	--	--	1321.04
	1/13/2016					29.95	--	--	1320.78
	2/16/2016					30.16	--	--	1320.57
	3/21/2016					30.29	--	--	1320.44
MW-5	8/8/2013	2.0	1352.77	30	15-30	19.61	--	--	1333.16
	8/13/2013					19.39	--	--	1333.38
	8/21/2013					19.66	--	--	1333.11
	8/28/2013					20.02	--	--	1332.75
	9/5/2013					20.54	--	--	1332.23
	9/11/2013					20.81	--	--	1331.96
	9/17/2013					21.03	--	--	1331.74
	9/23/2013					21.00	--	--	1331.77
	9/30/2013					21.17	--	--	1331.60

Please refer to notes at end of table.

Table B-1
Groundwater Gauging Data
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
	10/10/2013					21.45	--	--	1331.32
	10/17/2013					21.18	--	--	1331.59
	10/23/2013					21.20	--	--	1331.57
	10/31/2013					21.19	--	--	1331.58
	11/6/2013					20.91	--	--	1331.86
	11/13/2013					20.79	--	--	1331.98
	11/20/2013					20.18	--	--	1332.59
	11/26/2013					21.29	--	--	1331.48
	12/3/2013					20.84	--	--	1331.93
	12/11/2013					20.96	--	--	1331.81
	12/19/2013					20.54	--	--	1332.23
	12/27/2013					20.82	--	--	1331.95
	1/3/2014					NM	--	--	NM
	1/10/2014					20.19	--	--	1332.58
	1/16/2014					20.90	--	--	1331.87
	1/21/2014					21.04	--	--	1331.73
	1/27/2014					20.84	--	--	1331.93
	2/5/2014					NM	--	--	NM
	2/12/2014					NM	--	--	NM
	2/19/2014					21.23	--	--	1331.54
	2/26/2014					21.02	--	--	1331.75
	3/4/2014					21.05	--	--	1331.72
	3/13/2014					20.98	--	--	1331.79
MW-5 (cont.)	3/18/2014	2.0	1352.77	30	15-30	20.86	--	--	1331.91
	3/27/2014					20.97	--	--	1331.80
	4/3/2014					21.70	--	--	1331.07
	4/7/2014					21.05	--	--	1331.72
	4/17/2014					21.10	--	--	1331.67
	4/22/2014					21.30	--	--	1331.47
	4/29/2014					21.15	--	--	1331.62
	5/8/2014					21.33	--	--	1331.44
	5/13/2014					21.17	--	--	1331.60
	5/20/2014					21.48	--	--	1331.29
	5/29/2014					21.41	--	--	1331.36
	6/3/2014					21.16	--	--	1331.61
	6/10/2014					20.65	--	--	1332.12
	6/18/2014					20.30	--	--	1332.47
	6/24/2014					19.96	--	--	1332.81
	7/1/2014					19.74	--	--	1333.03
	7/10/2014					19.91	--	--	1332.86
	7/15/2014					20.10	--	--	1332.67
	7/22/2014					20.04	--	--	1332.73
	7/31/2014					20.26	--	--	1332.51
	8/5/2014					20.29	--	--	1332.48
	8/14/2014					20.23	--	--	1332.54
	8/20/2014					20.24	--	--	1332.53
	8/26/2014					20.37	--	--	1332.40

Please refer to notes at end of table.

Table B-1
Groundwater Gauging Data
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
MW- 5 (cont.)	9/3/2014	2.0	1352.77	30	15-30	20.44	--	--	1332.33
	9/10/2014					20.43	--	--	1332.34
	9/17/2014					20.54	--	--	1332.23
	9/24/2014					20.66	--	--	1332.11
	10/1/2014					20.59	--	--	1332.18
	10/8/2014					20.58	--	--	1332.19
	10/16/2014					20.39	--	--	1332.38
	10/21/2014					22.90	--	--	1329.87
	10/28/2014					20.14	--	--	1332.63
	11/4/2014					20.33	--	--	1332.44
	11/11/2014					20.39	--	--	1332.38
	11/25/2014					20.44	--	--	1332.33
	12/3/2014					20.59	--	--	1332.18
	12/9/2014					20.78	--	--	1331.99
	12/17/2014					20.68	--	--	1332.09
	12/23/2014					20.60	--	--	1332.17
	12/31/2014					20.61	--	--	1332.16
	1/7/2015					NM	--	--	NM
	1/14/2015					20.56	--	--	1332.21
	1/20/2015					20.55	--	--	1332.22
	1/28/2015					20.58	--	--	1332.19
	2/4/2015					20.69	--	--	1332.08
	2/9/2015					20.58	--	--	1332.19
	3/18/2015					20.80	--	--	1331.97
	4/20/2015					21.01	--	--	1331.76
	5/22/2015					20.25	--	--	1332.52
	6/10/2015					19.44	--	--	1333.33
	6/15/2015					19.60	--	--	1333.17
	7/22/2015					19.82	--	--	1332.95
	8/20/2015					19.97	--	--	1332.80
	9/14/2015					20.06	--	--	1332.71
	10/20/2015					20.24	--	--	1332.53
	11/24/2015					20.4	--	--	1332.37
	12/14/2015					19.82	--	--	1332.95
	1/13/2016					19.95	--	--	1332.82
	2/16/2016					20.49	--	--	1332.28
	3/21/2016					21.05	--	--	1331.72
MW-6	8/8/2013	2.0	1349.76	41	26-41	15.67	--	--	1334.09
	8/13/2013					18.34	--	--	1331.42
	8/21/2013					17.40	--	--	1332.36
	8/28/2013					17.95	--	--	1331.81
	9/5/2013					18.32	--	--	1331.44
	9/11/2013					18.21	--	--	1331.55
	9/17/2013					18.44	--	--	1331.32
	9/23/2013					18.30	--	--	1331.46
	9/30/2013					18.69	--	--	1331.07
	10/10/2013					18.84	--	--	1330.92

Please refer to notes at end of table.

Table B-1
Groundwater Gauging Data
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
MW-6 (cont.	10/17/2013	2.0	1349.76	41	26-41	18.76	--	--	1331.00
	10/23/2013					18.69	--	--	1331.07
	10/31/2013					18.57	--	--	1331.19
	11/6/2013					18.01	--	--	1331.75
	11/13/2013					19.42	--	--	1330.34
	11/20/2013					19.02	--	--	1330.74
	11/26/2013					19.84	--	--	1329.92
	12/3/2013					19.63	--	--	1330.13
	12/11/2013					20.45	--	--	1329.31
	12/19/2013					21.21	--	--	1328.55
	12/27/2013					21.67	--	--	1328.09
	1/3/2014					NM	--	--	NM
	1/10/2014					21.51	--	--	1328.25
	1/16/2014					21.48	--	--	1328.28
	1/21/2014					21.84	--	--	1327.92
	1/27/2014					22.26	--	--	1327.50
	2/5/2014					NM	--	--	NM
	2/12/2014					NM	--	--	NM
	2/19/2014					22.00	--	--	1327.76
	2/26/2014					22.32	--	--	1327.44
	3/4/2014					22.06	--	--	1327.70
	3/13/2014					22.30	--	--	1327.46
	3/18/2014					22.14	--	--	1327.62
	3/27/2014					21.89	--	--	1327.87
	4/3/2014					21.92	--	--	1327.84
	4/7/2014					22.37	--	--	1327.39
	4/17/2014					22.33	--	--	1327.43
	4/22/2014					22.41	--	--	1327.35
	4/29/2014					22.16	--	--	1327.60
	5/8/2014					22.02	--	--	1327.74
	5/13/2014					21.95	--	--	1327.81
	5/20/2014					22.46	--	--	1327.30
	5/29/2014					22.32	--	--	1327.44
	6/3/2014					22.09	--	--	1327.67
	6/10/2014					21.00	--	--	1328.76
	6/18/2014					20.54	--	--	1329.22
	6/24/2014					19.89	--	--	1329.87
	7/1/2014					19.46	--	--	1330.30
	7/10/2014					19.82	--	--	1329.94
	7/15/2014					19.86	--	--	1329.90
	7/22/2014					19.88	--	--	1329.88
	7/31/2014					20.00	--	--	1329.76
	8/5/2014					20.28	--	--	1329.48
	8/14/2014					20.42	--	--	1329.34
	8/20/2014					20.56	--	--	1329.20
	8/26/2014					20.72	--	--	1329.04
	9/3/2014					20.98	--	--	1328.78
	9/10/2014					21.02	--	--	1328.74

Please refer to notes at end of table.

Table B-1
Groundwater Gauging Data
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
	9/17/2014					21.49	--	--	1328.27
	9/24/2014					21.50	--	--	1328.26
	10/1/2014					21.57	--	--	1328.19
	10/8/2014					21.59	--	--	1328.17
	10/16/2014					20.74	--	--	1329.02
	10/21/2014					20.66	--	--	1329.10
	10/28/2014					20.79	--	--	1328.97
	11/4/2014					21.21	--	--	1328.55
	11/11/2014					21.68	--	--	1328.08
	11/25/2014					21.93	--	--	1327.83
	12/3/2014					22.06	--	--	1327.70
	12/9/2014					22.32	--	--	1327.44
	12/17/2014					22.20	--	--	1327.56
	12/23/2014					21.96	--	--	1327.80
	12/31/2014					20.61	--	--	1329.15
	1/7/2015					NM	--	--	NM
MW-6 (cont.	1/14/2015	2.0	1349.76	41	26-41	22.59	--	--	1327.17
	1/20/2015					22.45	--	--	1327.31
	1/28/2015					22.54	--	--	1327.22
	2/4/2015					22.59	--	--	1327.17
	2/9/2015					22.77	--	--	1326.99
	3/18/2015					22.62	--	--	1327.14
	4/20/2015					23.05	--	--	1326.71
	5/22/2015					22.25	--	--	1327.51
	6/15/2015					20.45	--	--	1329.31
	7/22/2015					20.66	--	--	1329.10
	8/20/2015					20.73	--	--	1329.03
	9/14/2015					20.48	--	--	1329.28
	10/20/2015					21.11	--	--	1328.65
	11/24/2015					22.17	--	--	1327.59
	12/14/2015					20.57	--	--	1329.19
	1/13/2016					20.51	--	--	1329.25
	2/16/2016					21.49	--	--	1328.27
	3/21/2016					22.22	--	--	1327.54
	8/8/2013					13.32	--	--	1335.66
	8/13/2013					13.68	--	--	1335.30
	8/21/2013					14.03	--	--	1334.95
	8/28/2013					14.76	--	--	1334.22
	9/5/2013					15.44	--	--	1333.54
	9/11/2013					15.66	--	--	1333.32
	9/17/2013					15.78	--	--	1333.20
MW-7	9/23/2013	2.0	1348.98	24	9-24	15.54	--	--	1333.44
	9/30/2013					15.39	--	--	1333.59
	10/10/2013					15.65	--	--	1333.33
	10/17/2013					15.68	--	--	1333.30
	10/23/2013					15.64	--	--	1333.34
	10/31/2013					15.66	--	--	1333.32
	11/6/2013					15.11	--	--	1333.87
	11/13/2013					15.21	--	--	1333.77

Please refer to notes at end of table.

Table B-1
Groundwater Gauging Data
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
	11/20/2013					15.62	--	--	1333.36
	11/26/2013					15.89	--	--	1333.09
	12/3/2013					16.03	--	--	1332.95
	12/11/2013					16.45	--	--	1332.53
	12/19/2013					16.41	--	--	1332.57
	12/27/2013					16.59	--	--	1332.39
	1/3/2014					NM	--	--	NM
	1/10/2014					16.47	--	--	1332.51
	1/16/2014					16.45	--	--	1332.53
	1/21/2014					16.66	--	--	1332.32
	1/27/2014					16.68	--	--	1332.30
	2/5/2014					NM	--	--	NM
	2/12/2014					NM	--	--	NM
	2/19/2014					16.61	--	--	1332.37
	2/26/2014					16.64	--	--	1332.34
	3/4/2014					16.65	--	--	1332.33
	3/13/2014					16.73	--	--	1332.25
	3/18/2014					16.68	--	--	1332.30
	3/27/2014					16.56	--	--	1332.42
	4/3/2014					16.64	--	--	1332.34
	4/7/2014					16.60	--	--	1332.38
	4/17/2014					16.66	--	--	1332.32
	4/22/2014					16.70	--	--	1332.28
MW-7 (cont.)	4/29/2014	2.0	1348.98	24	9-24	16.70	--	--	1332.28
	5/8/2014					16.95	--	--	1332.03
	5/13/2014					16.80	--	--	1332.18
	5/20/2014					15.69	--	--	1333.29
	5/29/2014					17.44	--	--	1331.54
	6/3/2014					16.13	--	--	1332.85
	6/10/2014					14.85	--	--	1334.13
	6/18/2014					15.52	--	--	1333.46
	6/24/2014					14.78	--	--	1334.20
	7/1/2014					14.74	--	--	1334.24
	7/10/2014					15.10	--	--	1333.88
	7/15/2014					15.31	--	--	1333.67
	7/22/2014					15.39	--	--	1333.59
	7/31/2014					15.72	--	--	1333.26
	8/5/2014					15.82	--	--	1333.16
	8/14/2014					15.59	--	--	1333.39
	8/20/2014					15.73	--	--	1333.25
	8/26/2014					15.90	--	--	1333.08
	9/3/2014					15.99	--	--	1332.99
	9/10/2014					16.03	--	--	1332.95
	9/17/2014					16.14	--	--	1332.84
	9/24/2014					16.24	--	--	1332.74
	10/1/2014					16.16	--	--	1332.82
	10/8/2014					16.17	--	--	1332.81

Please refer to notes at end of table.

Table B-1
Groundwater Gauging Data
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
MW-7 (cont.)	10/16/2014	2.0	1348.98	24	9-24	15.50	--	--	1333.48
	10/21/2014					15.65	--	--	1333.33
	10/28/2014					15.64	--	--	1333.34
	11/4/2014					16.02	--	--	1332.96
	11/11/2014					16.04	--	--	1332.94
	11/25/2014					16.37	--	--	1332.61
	12/3/2014					16.46	--	--	1332.52
	12/9/2014					16.54	--	--	1332.44
	12/17/2014					16.52	--	--	1332.46
	12/23/2014					16.41	--	--	1332.57
	12/31/2014					16.48	--	--	1332.50
	1/7/2015					NM	--	--	NM
	1/14/2015					16.49	--	--	1332.49
	1/20/2015					16.55	--	--	1332.43
	1/28/2015					16.56	--	--	1332.42
	2/4/2015					16.56	--	--	1332.42
	2/9/2015					16.58	--	--	1332.40
	3/18/2015					16.63	--	--	1332.35
	4/20/2015					16.10	--	--	1332.88
	5/22/2015					15.23	--	--	1333.75
	6/15/2015					14.91	--	--	1334.07
	7/22/2015					15.61	--	--	1333.37
	8/20/2015					15.70	--	--	1333.28
	9/14/2015					15.55	--	--	1333.43
	10/20/2015					16.07	--	--	1332.91
	11/24/2015					16.29	--	--	1332.69
	12/14/2015					15.56	--	--	1333.42
	1/13/2016					15.75	--	--	1333.23
	2/16/2016					16.51	--	--	1332.47
	3/21/2016					16.65	--	--	1332.33
MW-8	8/8/2013	2.0	1353.38	30	15-30	18.62	--	--	1334.76
	8/13/2013					18.13	--	--	1335.25
	8/21/2013					18.32	--	--	1335.06
	8/28/2013					19.21	--	--	1334.17
	9/5/2013					20.00	--	--	1333.38
	9/11/2013					20.35	--	--	1333.03
	9/17/2013					20.54	--	--	1332.84
	9/23/2013					20.59	--	--	1332.79
	9/30/2013					20.70	--	--	1332.68
	10/10/2013					20.82	--	--	1332.56
	10/17/2013					20.92	--	--	1332.46
	10/23/2013					20.85	--	--	1332.53
	10/31/2013					20.89	--	--	1332.49
	11/6/2013					19.21	--	--	1334.17
	11/13/2013					19.38	--	--	1334.00
	11/20/2013					18.86	--	--	1334.52
	11/26/2013					20.30	--	--	1333.08

Please refer to notes at end of table.

Table B-1
Groundwater Gauging Data
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
MW-8 (cont.)	12/3/2013	2.0	1353.38	30	15-30	20.54	--	--	1332.84
	12/11/2013					21.09	--	--	1332.29
	12/19/2013					21.11	--	--	1332.27
	12/27/2013					21.54	--	--	1331.84
	1/3/2014					NM	--	--	NM
	1/10/2014					21.24	--	--	1332.14
	1/16/2014					21.70	--	--	1331.68
	1/21/2014					21.80	--	--	1331.58
	1/27/2014					21.88	--	--	1331.50
	2/5/2014					NM	--	--	NM
	2/12/2014					NM	--	--	NM
	2/19/2014					22.15	--	--	1331.23
	2/26/2014					21.46	--	--	1331.92
	3/4/2014					21.84	--	--	1331.54
	3/13/2014					21.90	--	--	1331.48
	3/18/2014					21.70	--	--	1331.68
	3/27/2014					21.79	--	--	1331.59
	4/3/2014					21.95	--	--	1331.43
	4/7/2014					22.06	--	--	1331.32
	4/17/2014					22.29	--	--	1331.09
	4/22/2014					22.26	--	--	1331.12
	4/29/2014					22.20	--	--	1331.18
	5/8/2014					22.23	--	--	1331.15
	5/13/2014					22.42	--	--	1330.96
	5/20/2014					22.27	--	--	1331.11
	5/29/2014					22.43	--	--	1330.95
	6/3/2014					22.32	--	--	1331.06
	6/10/2014					21.73	--	--	1331.65
	6/18/2014					20.64	--	--	1332.74
	6/24/2014					20.00	--	--	1333.38
	7/1/2014					20.22	--	--	1333.16
	7/10/2014					20.24	--	--	1333.14
	7/15/2014					20.47	--	--	1332.91
	7/22/2014					20.64	--	--	1332.74
	7/31/2014					20.89	--	--	1332.49
	8/5/2014					20.96	--	--	1332.42
	8/14/2014					21.09	--	--	1332.29
	8/20/2014					21.06	--	--	1332.32
	8/26/2014					21.24	--	--	1332.14
	9/3/2014					21.36	--	--	1332.02
	9/10/2014					21.44	--	--	1331.94
	9/17/2014					21.56	--	--	1331.82
	9/24/2014					21.69	--	--	1331.69
	10/1/2014					21.65	--	--	1331.73
	10/8/2014					21.70	--	--	1331.68
	10/16/2014					21.53	--	--	1331.85

Please refer to notes at end of table.

Table B-1
Groundwater Gauging Data
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
MW-8 (cont.)	10/21/2014	2.0	1353.38	30	15-30	21.32	--	--	1332.06
	10/28/2014					20.98	--	--	1332.40
	11/4/2014					21.09	--	--	1332.29
	11/11/2014					21.09	--	--	1332.29
	11/25/2014					21.21	--	--	1332.17
	12/3/2014					21.48	--	--	1331.90
	12/9/2014					21.69	--	--	1331.69
	12/17/2014					21.74	--	--	1331.64
	12/23/2014					21.61	--	--	1331.77
	12/31/2014					21.73	--	--	1331.65
	1/7/2015					NM	--	--	NM
	1/14/2015					21.64	--	--	1331.74
	1/20/2015					21.70	--	--	1331.68
	1/28/2015					21.72	--	--	1331.66
	2/4/2015					21.92	--	--	1331.46
	2/9/2015					21.88	--	--	1331.50
	3/18/2015					21.96	--	--	1331.42
	4/20/2015					22.25	--	--	1331.13
	5/22/2015					20.93	--	--	1332.45
	6/15/2015					19.93	--	--	1333.45
	7/22/2015					20.20	--	--	1333.18
	8/20/2015					20.64	--	--	1332.74
	9/14/2015					20.68	--	--	1332.70
	10/20/2015					21.08	--	--	1332.30
	11/24/2015					21.61	--	--	1331.77
	12/14/2015					20.41	--	--	1332.97
	1/13/2016					20.53	--	--	1332.85
	2/16/2016					21.26	--	--	1332.12
	3/21/2016					22.04	--	--	1331.34
MW-9	8/8/2013	2.0	1349.48	34	19-34	28.61	--	--	1320.87
	8/13/2013					27.58	--	--	1321.90
	8/21/2013					27.52	--	--	1321.96
	8/28/2013					27.60	--	--	1321.88
	9/5/2013					28.28	--	--	1321.20
	9/11/2013					30.57	--	--	1318.91
	9/17/2013					30.05	--	--	1319.43
	9/23/2013					30.25	--	--	1319.23
	9/30/2013					30.45	--	--	1319.03
	10/10/2013					30.76	--	--	1318.72
	10/17/2013					30.69	--	--	1318.79
	10/23/2013					30.73	--	--	1318.75
	10/31/2013					30.11	--	--	1319.37
	11/6/2013					30.03	--	--	1319.45
	11/13/2013					29.54	--	--	1319.94
	11/20/2013					28.66	--	--	1320.82
	11/26/2013					28.67	--	--	1320.81
	12/3/2013					28.40	--	--	1321.08

Please refer to notes at end of table.

Table B-1
Groundwater Gauging Data
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
	12/11/2013					28.55	--	--	1320.93
	12/19/2013					28.55	--	--	1320.93
	12/27/2013					NM	--	--	NM
	1/3/2014					NM	--	--	NM
	1/10/2014					28.65	--	--	1320.83
	1/16/2014					28.75	--	--	1320.73
	1/21/2014					28.91	--	--	1320.57
	1/27/2014					28.93	--	--	1320.55
	2/5/2014					NM	--	--	NM
	2/12/2014					NM	--	--	NM
	2/19/2014					29.09	--	--	1320.39
	2/26/2014					29.16	--	--	1320.32
	3/4/2014					NM	--	--	NM
	3/13/2014					29.31	--	--	1320.17
	3/18/2014					29.17	--	--	1320.31
	3/27/2014					28.59	--	--	1320.89
	4/3/2014					30.00	--	--	1319.48
	4/7/2014					30.25	--	--	1319.23
	4/17/2014					30.81	--	--	1318.67
	4/22/2014					31.06	--	--	1318.42
	4/29/2014					31.50	--	--	1317.98
	5/8/2014					31.81	--	--	1317.67
	5/13/2014					32.96	--	--	1316.52
MW-9 (cont.)	5/20/2014	2.0	1349.48	34	19-34	33.39	--	--	1316.09
	5/29/2014					33.56	--	--	1315.92
	6/3/2014					33.61	--	--	1315.87
	6/10/2014					32.83	--	--	1316.65
	6/18/2014					31.25	--	--	1318.23
	6/24/2014					30.60	--	--	1318.88
	7/1/2014					30.14	--	--	1319.34
	7/10/2014					30.21	--	--	1319.27
	7/15/2014					30.46	--	--	1319.02
	7/22/2014					30.56	--	--	1318.92
	7/31/2014					NM	--	--	NM
	8/5/2014					NM	--	--	NM
	8/14/2014					31.44	--	--	1318.04
	8/20/2014					NM	--	--	NM
	8/26/2014					NM	--	--	NM
	9/3/2014					NM	--	--	NM
	9/10/2014					32.21	--	--	NM
	9/17/2014					NM	--	--	NM
	9/24/2014					32.98	--	--	1316.50
	10/1/2014					32.50	--	--	1316.98
	10/8/2014					32.52	--	--	1316.96
	10/16/2014					32.24	--	--	1317.24
	10/21/2014					NM	--	--	NM
	10/28/2014					31.87	--	--	1317.61

Please refer to notes at end of table.

Table B-1
Groundwater Gauging Data
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
MW-9 (cont.)	11/4/2014	2.0	1349.48	34	19-34	32.09	--	--	1317.39
	11/11/2014					31.84	--	--	1317.64
	11/25/2014					32.01	--	--	1317.47
	12/3/2014					32.18	--	--	1317.30
	12/9/2014					31.97	--	--	1317.51
	12/17/2014					32.04	--	--	1317.44
	12/23/2014					31.96	--	--	1317.52
	12/31/2014					31.11	--	--	1318.37
	1/7/2015					NM	--	--	NM
	1/14/2015					NM	--	--	NM
	1/20/2015					NM	--	--	NM
	1/28/2015					31.81	--	--	1317.67
	2/4/2015					31.90	--	--	1317.58
	2/9/2015					31.78	--	--	1317.70
	3/18/2015					31.59	--	--	1317.89
	4/20/2015					33.25	--	--	1316.23
	5/22/2015					31.55	--	--	1317.93
	6/15/2015					29.83	--	--	1319.65
	7/22/2015					28.87	--	--	1320.61
	8/20/2015					28.41	--	--	1321.07
	9/14/2015					30.24	--	--	1319.24
	10/20/2015					31.07	--	--	1318.41
	11/24/2015					30.87	--	--	1318.61
	12/14/2015					29.22	--	--	1320.26
	1/13/2016					28.32	--	--	1321.16
	2/16/2016					28.32	--	--	1321.16
	3/21/2016					29.66	--	--	1319.82
MW-10	8/8/2013	2.0	1348.79	34	19-34	26.72	--	--	1322.07
	8/13/2013					25.39	--	--	1323.40
	8/21/2013					24.94	--	--	1323.85
	8/28/2013					25.94	--	--	1322.85
	9/5/2013					28.21	--	--	1320.58
	9/11/2013					28.42	--	--	1320.37
	9/17/2013					28.49	--	--	1320.30
	9/23/2013					28.46	--	--	1320.33
	9/30/2013					28.32	--	--	1320.47
	10/10/2013					28.30	--	--	1320.49
	10/17/2013					28.45	--	--	1320.34
	10/23/2013					28.33	--	--	1320.46
	10/31/2013					28.40	--	--	1320.39
	11/6/2013					27.87	--	--	1320.92
	11/13/2013					28.25	--	--	1320.54
	11/20/2013					27.53	--	--	1321.26
	11/26/2013					27.30	--	--	1321.49
	12/3/2013					26.81	--	--	1321.98
	12/11/2013					27.14	--	--	1321.65
	12/19/2013					27.10	--	--	1321.69
	12/27/2013					27.42	--	--	1321.37

Please refer to notes at end of table.

Table B-1
Groundwater Gauging Data
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
MW-10 (cont.)	1/3/2014	2.0	1348.79	34	19-34	NM	--	--	NM
	1/10/2014					27.35	--	--	1321.44
	1/16/2014					27.51	--	--	1321.28
	1/21/2014					27.77	--	--	1321.02
	1/27/2014					27.47	--	--	1321.32
	2/5/2014					NM	--	--	NM
	2/12/2014					NM	--	--	NM
	2/19/2014					27.53	--	--	1321.26
	2/26/2014					27.58	--	--	1321.21
	3/4/2014					27.66	--	--	1321.13
	3/13/2014					27.78	--	--	1321.01
	3/18/2014					27.65	--	--	1321.14
	3/27/2014					28.12	--	--	1320.67
	4/3/2014					28.36	--	--	1320.43
	4/7/2014					28.43	--	--	1320.36
	4/17/2014					28.41	--	--	1320.38
	4/22/2014					28.48	--	--	1320.31
	4/29/2014					28.50	--	--	1320.29
	5/8/2014					29.01	--	--	1319.78
	5/13/2014					29.08	--	--	1319.71
	5/20/2014					29.21	--	--	1319.58
	5/29/2014					28.95	--	--	1319.84
	6/3/2014					28.46	--	--	1320.33
	6/10/2014					28.25	--	--	1320.54
	6/18/2014					27.25	--	--	1321.54
	6/24/2014					NM	--	--	NM
	7/1/2014					28.44	--	--	1320.35
	7/10/2014					28.28	--	--	1320.51
	7/15/2014					28.32	--	--	1320.47
	7/22/2014					28.28	--	--	1320.51
	7/31/2014					28.50	--	--	1320.29
	8/5/2014					28.47	--	--	1320.32
	8/14/2014					28.41	--	--	1320.38
	8/20/2014					28.40	--	--	1320.39
	8/26/2014					28.44	--	--	1320.35
	9/3/2014					29.46	--	--	1319.33
	9/10/2014					28.44	--	--	1320.35
	9/17/2014					28.46	--	--	1320.33
	9/24/2014					28.47	--	--	1320.32
	10/1/2014					28.45	--	--	1320.34
	10/8/2014					28.44	--	--	1320.35
	10/16/2014					28.39	--	--	1320.40
	10/21/2014					28.45	--	--	1320.34
	10/28/2014					28.42	--	--	1320.37
	11/4/2014					28.46	--	--	1320.33
	11/11/2014					28.52	--	--	1320.27
	11/25/2014					28.65	--	--	1320.14

Please refer to notes at end of table.

Table B-1
Groundwater Gauging Data
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
MW-10 (cont.)	12/3/2014	2.0	1348.79	34	19-34	28.69	--	--	1320.10
	12/9/2014					28.65	--	--	1320.14
	12/17/2014					28.61	--	--	1320.18
	12/23/2014					NM	--	--	NM
	12/31/2014					29.36	--	--	1319.43
	1/7/2015					NM	--	--	NM
	1/14/2015					28.45	--	--	1320.34
	1/20/2015					28.42	--	--	1320.37
	1/28/2015					28.44	--	--	1320.35
	2/4/2015					28.49	--	--	1320.30
	2/9/2015					28.54	--	--	1320.25
	3/18/2015					28.42	--	--	1320.37
	4/20/2015					28.53	--	--	1320.26
	5/22/2015					28.27	--	--	1320.52
	6/15/2015					28.30	--	--	1320.49
	7/22/2015					29.56	--	--	1319.23
	8/20/2015					30.49	--	--	1318.30
	9/14/2015					28.40	--	--	1320.39
	10/20/2015					28.39	--	--	1320.40
	11/24/2015					28.40	--	--	1320.39
	12/14/2015					28.36	--	--	1320.43
	1/13/2016					27.04	--	--	1321.75
	2/16/2016					26.97	--	--	1321.82
	3/21/2016					28.43	--	--	1320.36
MW-11	9/30/2013	2.0	1351.34	42	22-42	29.03	--	--	1322.31
	10/10/2013					28.08	--	--	1323.26
	10/17/2013					28.26	--	--	1323.08
	10/23/2013					29.36	--	--	1321.98
	10/31/2013					28.92	--	--	1322.42
	11/6/2013					28.14	--	--	1323.20
	11/13/2013					28.16	--	--	1323.18
	11/20/2013					27.70	--	--	1323.64
	11/26/2013					28.03	--	--	1323.31
	12/3/2013					28.03	--	--	1323.31
	12/11/2013					28.54	--	--	1322.80
	12/19/2013					28.53	--	--	1322.81
	12/27/2013					28.80	--	--	1322.54
	1/3/2014					NM	--	--	NM
	1/10/2014					29.60	--	--	1321.74
	1/16/2014					28.89	--	--	1322.45
	1/21/2014					28.99	--	--	1322.35
	1/27/2014					28.91	--	--	1322.43
	2/5/2014					NM	--	--	NM
	2/12/2014					NM	--	--	NM
	2/19/2014					28.52	--	--	1322.82
	2/26/2014					28.71	--	--	1322.63
	3/4/2014					28.61	--	--	1322.73
	3/13/2014					28.77	--	--	1322.57

Please refer to notes at end of table.

Table B-1
Groundwater Gauging Data
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
MW-11 (cont.)	3/18/2014	2.0	1351.34	42	22-42	28.51	--	--	1322.83
	3/27/2014					28.68	--	--	1322.66
	4/3/2014					28.77	--	--	1322.57
	4/7/2014					28.75	--	--	1322.59
	4/17/2014					28.79	--	--	1322.55
	4/22/2014					28.92	--	--	1322.42
	4/29/2014					28.90	--	--	1322.44
	5/8/2014					29.84	--	--	1321.50
	5/13/2014					29.91	--	--	1321.43
	5/20/2014					28.52	--	--	1322.82
	5/29/2014					30.09	--	--	1321.25
	6/3/2014					29.34	--	--	1322.00
	6/10/2014					28.71	--	--	1322.63
	6/18/2014					28.44	--	--	1322.90
	6/24/2014					28.09	--	--	1323.25
	7/1/2014					27.76	--	--	1323.58
	7/10/2014					27.85	--	--	1323.49
	7/15/2014					29.83	--	--	1321.51
	7/22/2014					28.13	--	--	1323.21
	7/31/2014					28.49	--	--	1322.85
	8/5/2014					28.49	--	--	1322.85
	8/14/2014					28.46	--	--	1322.88
	8/20/2014					28.54	--	--	1322.80
	8/26/2014					28.53	--	--	1322.81
	9/3/2014					28.60	--	--	1322.74
	9/10/2014					28.65	--	--	1322.69
	9/17/2014					28.69	--	--	1322.65
	9/24/2014					23.69	--	--	1327.65
	10/1/2014					28.58	--	--	1322.76
	10/8/2014					28.62	--	--	1322.72
	10/16/2014					28.59	--	--	1322.75
	10/21/2014					28.65	--	--	1322.69
	10/28/2014					29.75	--	--	1321.59
	11/4/2014					28.57	--	--	1322.77
	11/11/2014					28.70	--	--	1322.64
	11/25/2014					28.93	--	--	1322.41
	12/3/2014					29.00	--	--	1322.34
	12/9/2014					28.94	--	--	1322.40
	12/17/2014					28.93	--	--	1322.41
	12/23/2014					28.96	--	--	1322.38
	12/31/2014					29.03	--	--	1322.31
	1/7/2015					NM	--	--	NM
	1/14/2015					28.88	--	--	1322.46
	1/20/2015					28.88	--	--	1322.46
	1/28/2015					28.97	--	--	1322.37
	2/4/2015					28.94	--	--	1322.40

Please refer to notes at end of table.

Table B-1
Groundwater Gauging Data
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
MW-11 (cont.)	2/9/2015	2.0	1351.34	42	22-42	29.26	--	--	1322.08
	3/19/2015					29.84	--	--	1321.50
	4/20/2015					30.39	--	--	1320.95
	5/22/2015					29.88	--	--	1320.59
	6/15/2015					28.31	--	--	1323.03
	7/22/2015					28.66	--	--	1322.68
	8/20/2015					28.73	--	--	1322.61
	9/14/2015					28.82	--	--	1322.52
	10/20/2015					28.62	--	--	1322.72
	11/24/2015					28.76	--	--	1322.58
	12/14/2015					28.64	--	--	1322.70
	1/13/2016					28.51	--	--	1322.83
	2/16/2016					28.97	--	--	1322.37
	3/21/2016					28.87	--	--	1322.47
MW-12	9/30/2013	2.0	1349.74	43	23-43	30.15	--	--	1319.59
	10/10/2013					30.55	--	--	1319.19
	10/17/2013					30.49	--	--	1319.25
	10/23/2013					30.40	--	--	1319.34
	10/31/2013					30.45	--	--	1319.29
	11/6/2013					29.91	--	--	1319.83
	11/13/2013					29.32	--	--	1320.42
	11/20/2013					28.16	--	--	1321.58
	11/26/2013					27.91	--	--	1321.83
	12/3/2013					27.41	--	--	1322.33
	12/11/2013					27.83	--	--	1321.91
	12/19/2013					27.74	--	--	1322.00
	12/27/2013					NM	--	--	NM
	1/3/2014					NM	--	--	NM
	1/10/2014					28.25	--	--	1321.49
	1/16/2014					28.28	--	--	1321.46
	1/21/2014					28.61	--	--	1321.13
	1/27/2014					28.40	--	--	1321.34
	2/5/2014					NM	--	--	NM
	2/12/2014					NM	--	--	NM
	2/19/2014					28.46	--	--	1321.28
	2/26/2014					28.49	--	--	1321.25
	3/4/2014					NM	--	--	NM
	3/13/2014					28.77	--	--	1320.97
	3/18/2014					28.70	--	--	1321.04
	3/27/2014					29.25	--	--	1320.49
	4/3/2014					29.70	--	--	1320.04
	4/7/2014					29.83	--	--	1319.91
	4/17/2014					30.45	--	--	1319.29
	4/22/2014					30.85	--	--	1318.89
	4/29/2014					31.10	--	--	1318.64
	5/8/2014					31.29	--	--	1318.45
	5/13/2014					31.21	--	--	1318.53
	5/20/2014					31.13	--	--	1318.61
	5/29/2014					31.16	--	--	1318.58

Please refer to notes at end of table.

Table B-1
Groundwater Gauging Data
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
MW-12 (cont.)	6/3/2014	2.0	1349.74	43	23-43	31.14	--	--	1318.60
	6/10/2014					31.15	--	--	1318.59
	6/18/2014					31.01	--	--	1318.73
	6/24/2014					30.79	--	--	1318.95
	7/1/2014					30.42	--	--	1319.32
	7/10/2014					30.48	--	--	1319.26
	7/15/2014					30.75	--	--	1318.99
	7/22/2014					30.72	--	--	1319.02
	7/31/2014					31.07	--	--	1318.67
	8/5/2014					31.15	--	--	1318.59
	8/14/2014					31.07	--	--	1318.67
	8/20/2014					31.01	--	--	1318.73
	8/26/2014					31.12	--	--	1318.62
	9/3/2014					31.12	--	--	1318.62
	9/10/2014					31.12	--	--	1318.62
	9/17/2014					31.12	--	--	1318.62
	9/24/2014					31.11	--	--	1318.63
	10/1/2014					31.05	--	--	1318.69
	10/8/2014					31.08	--	--	1318.66
	10/16/2014					31.05	--	--	1318.69
	10/21/2014					31.09	--	--	1318.65
	10/28/2014					31.09	--	--	1318.65
	11/4/2014					31.06	--	--	1318.68
	11/11/2014					31.12	--	--	1318.62
	11/25/2014					31.10	--	--	1318.64
	12/3/2014					31.05	--	--	1318.69
	12/9/2014					31.12	--	--	1318.62
	12/17/2014					31.11	--	--	1318.63
	12/23/2014					31.06	--	--	1318.68
	12/31/2014					31.11	--	--	1318.63
	1/7/2015					NM	--	--	NM
	1/14/2015					NM	--	--	NM
	1/20/2015					31.04	--	--	1318.70
	1/28/2015					31.05	--	--	1318.69
	2/4/2015					31.07	--	--	1318.67
	2/9/2015					31.06	--	--	1318.68
	3/18/2015					30.95	--	--	1318.79
	4/20/2015					31.09	--	--	1318.65
	5/22/2015					30.33	--	--	1319.41
	6/15/2015					30.86	--	--	1318.88
	7/22/2015					30.98	--	--	1318.76
	8/20/2015					31.08	--	--	1318.66
	9/14/2015					31.09	--	--	1318.65
	10/20/2015					31.09	--	--	1318.65
	11/24/2015					31.09	--	--	1318.65
	12/14/2015					30.51	--	--	1319.23
	1/13/2016					28.00	--	--	1321.74
	2/16/2016					27.92	--	--	1321.82
	3/21/2016					30.36	--	--	1319.38

Please refer to notes at end of table.

Table B-1
Groundwater Gauging Data
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
MW-13	9/30/2013	2.0	1354.58	45	25-45	31.25	--	--	1323.33
	10/10/2013					31.59	--	--	1322.99
	10/17/2013					31.74	--	--	1322.84
	10/23/2013					31.70	--	--	1322.88
	10/31/2013					31.72	--	--	1322.86
	11/6/2013					31.61	--	--	1322.97
	11/13/2013					31.70	--	--	1322.88
	11/20/2013					30.84	--	--	1323.74
	11/26/2013					31.30	--	--	1323.28
	12/3/2013					31.02	--	--	1323.56
	12/11/2013					31.26	--	--	1323.32
	12/19/2013					31.16	--	--	1323.42
	12/27/2013					31.48	--	--	1323.10
	1/3/2014					NM	--	--	NM
	1/10/2014					31.22	--	--	1323.36
	1/16/2014					32.70	--	--	1321.88
	1/21/2014					31.94	--	--	1322.64
	1/27/2014					31.98	--	--	1322.60
	2/5/2014					NM	--	--	NM
	2/12/2014					NM	--	--	NM
	2/19/2014					31.92	--	--	1322.66
	2/26/2014					32.10	--	--	1322.48
	3/4/2014					32.05	--	--	1322.53
	3/13/2014					32.25	--	--	1322.33
	3/18/2014					32.05	--	--	1322.53
	3/27/2014					32.16	--	--	1322.42
	4/3/2014					32.41	--	--	1322.17
	4/7/2014					32.35	--	--	1322.23
	4/17/2014					32.38	--	--	1322.20
	4/22/2014					32.70	--	--	1321.88
	4/29/2014					32.91	--	--	1321.67
	5/8/2014					33.03	--	--	1321.55
	5/13/2014					32.95	--	--	1321.63
	5/20/2014					33.39	--	--	1321.19
	5/29/2014					33.34	--	--	1321.24
	6/3/2014					33.45	--	--	1321.13
	6/10/2014					33.50	--	--	1321.08
	6/18/2014					33.44	--	--	1321.14
	6/24/2014					33.16	--	--	1321.42
	7/1/2014					32.90	--	--	1321.68
	7/10/2014					32.75	--	--	1321.83
	7/15/2014					32.99	--	--	1321.59
	7/22/2014					32.46	--	--	1322.12
	7/31/2014					32.47	--	--	1322.11
	8/5/2014					32.40	--	--	1322.18
	8/14/2014					32.33	--	--	1322.25
	8/20/2014					32.35	--	--	1322.23
	8/26/2014					31.26	--	--	1323.32

Please refer to notes at end of table.

Table B-1
Groundwater Gauging Data
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
MW-13 (cont.)	9/3/2014	2.0	1354.58	45	25-45	32.39	--	--	1322.19
	9/10/2014					32.46	--	--	1322.12
	9/17/2014					32.42	--	--	1322.16
	9/24/2014					32.51	--	--	1322.07
	10/1/2014					32.79	--	--	1321.79
	10/8/2014					32.77	--	--	1321.81
	10/16/2014					33.00	--	--	1321.58
	10/21/2014					32.70	--	--	1321.88
	10/28/2014					32.83	--	--	1321.75
	11/4/2014					32.71	--	--	1321.87
	11/11/2014					32.60	--	--	1321.98
	11/25/2014					32.65	--	--	1321.93
	12/3/2014					32.88	--	--	1321.70
	12/9/2014					32.76	--	--	1321.82
	12/17/2014					32.95	--	--	1321.63
	12/23/2014					32.94	--	--	1321.64
	12/31/2014					32.97	--	--	1321.61
	1/7/2015					NM	--	--	NM
	1/14/2015					33.06	--	--	1321.52
	1/20/2015					32.93	--	--	1321.65
	1/28/2015					32.85	--	--	1321.73
	2/4/2015					33.07	--	--	1321.51
	2/9/2015					32.81	--	--	1321.77
	3/18/2015					33.16	--	--	1321.42
	4/20/2015					33.34	--	--	1321.24
	5/22/2015					32.56	--	--	1322.02
	6/15/2015					31.94	--	--	1322.64
	7/22/2015					31.77	--	--	1322.81
	8/20/2015					31.56	--	--	1323.02
	9/14/2015					31.41	--	--	1323.17
	10/20/2015					31.83	--	--	1322.75
	11/24/2015					32.18	--	--	1322.40
	12/14/2015					31.98	--	--	1322.60
	1/13/2016					31.41	--	--	1323.17
	2/16/2016					31.49	--	--	1323.09
	3/21/2016					31.92	--	--	1322.66
MW-14	9/30/2013	2.0	1354.99	45	25-45	31.59	--	--	1323.40
	10/10/2013					31.53	--	--	1323.46
	10/17/2013					31.71	--	--	1323.28
	10/23/2013					31.74	--	--	1323.25
	10/31/2013					31.76	--	--	1323.23
	11/6/2013					NM	--	--	NM
	11/13/2013					31.48	--	--	1323.51
	11/20/2013					30.51	--	--	1324.48
	11/26/2013					31.47	--	--	1323.52
	12/3/2013					31.42	--	--	1323.57
	12/11/2013					31.73	--	--	1323.26
	12/19/2013					31.74	--	--	1323.25
	12/27/2013					31.95	--	--	1323.04

Please refer to notes at end of table.

Table B-1
Groundwater Gauging Data
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
MW-14 (cont.)	1/3/2014	2.0	1354.99	45	25-45	NM	--	--	NM
	1/10/2014					31.47	--	--	1323.52
	1/16/2014					32.23	--	--	1322.76
	1/21/2014					32.35	--	--	1322.64
	1/27/2014					32.40	--	--	1322.59
	2/5/2014					NM	--	--	NM
	2/12/2014					NM	--	--	NM
	2/19/2014					32.58	--	--	1322.41
	2/26/2014					32.71	--	--	1322.28
	3/4/2014					32.75	--	--	1322.24
	3/13/2014					32.83	--	--	1322.16
	3/18/2014					32.70	--	--	1322.29
	3/27/2014					32.79	--	--	1322.20
	4/3/2014					32.95	--	--	1322.04
	4/7/2014					33.11	--	--	1321.88
	4/17/2014					33.56	--	--	1321.43
	4/22/2014					33.82	--	--	1321.17
	4/29/2014					NM	--	--	NM
	5/8/2014					34.85	--	--	1320.14
	5/13/2014					35.20	--	--	1319.79
	5/20/2014					34.95	--	--	1320.04
	5/29/2014					34.50	--	--	1320.49
	6/3/2014					34.55	--	--	1320.44
	6/10/2014					33.69	--	--	1321.30
	6/18/2014					33.20	--	--	1321.79
	6/24/2014					32.07	--	--	1322.92
	7/1/2014					31.96	--	--	1323.03
	7/10/2014					31.84	--	--	1323.15
	7/15/2014					31.85	--	--	1323.14
	7/22/2014					31.88	--	--	1323.11
	7/31/2014					31.94	--	--	1323.05
	8/5/2014					32.01	--	--	1322.98
	8/14/2014					32.04	--	--	1322.95
	8/20/2014					32.01	--	--	1322.98
	8/26/2014					32.15	--	--	1322.84
	9/3/2014					32.19	--	--	1322.80
	9/10/2014					32.30	--	--	1322.69
	9/17/2014					32.38	--	--	1322.61
	9/24/2014					32.52	--	--	1322.47
	10/1/2014					32.49	--	--	1322.50
	10/8/2014					32.51	--	--	1322.48
	10/16/2014					32.40	--	--	1322.59
	10/21/2014					NM	--	--	--
	10/29/2014					32.28	--	--	1322.71
	11/4/2014					32.29	--	--	1322.70
	11/11/2014					32.36	--	--	1322.63
	11/25/2014					32.53	--	--	1322.46

Please refer to notes at end of table.

Table B-1
Groundwater Gauging Data
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
MW-14 (cont.)	12/3/2014	2.0	1354.99	45	25-45	32.84	--	--	1322.15
	12/9/2014					33.08	--	--	1321.91
	12/17/2014					33.33	--	--	1321.66
	12/23/2014					33.33	--	--	1321.66
	12/31/2014					33.51	--	--	1321.48
	1/7/2015					NM	--	--	NM
	1/14/2015					33.51	--	--	1321.48
	1/20/2015					33.59	--	--	1321.40
	1/28/2015					33.65	--	--	1321.34
	2/4/2015					33.88	--	--	1321.11
	2/9/2015					34.00	--	--	1320.99
	3/18/2015					33.94	--	--	1321.05
	4/20/2015					34.93	--	--	1320.06
	5/22/2015					33.53	--	--	1321.46
	6/15/2015					31.70	--	--	1323.29
	7/22/2015					31.62	--	--	1323.37
	8/20/2015					31.55	--	--	1323.44
	9/14/2015					31.38	--	--	1323.61
	10/20/2015					31.92	--	--	1323.07
	11/24/2015					32.20	--	--	1322.79
	12/14/2015					31.74	--	--	1323.25
	1/13/2016					31.53	--	--	1323.46
	2/16/2016					31.78	--	--	1323.21
	3/21/2016					32.20	--	--	1322.79
MW-15	9/30/2013	2.0	1351.79	45	25-45	32.64	--	--	1319.15
	10/10/2013					32.75	--	--	1319.04
	10/17/2013					32.93	--	--	1318.86
	10/23/2013					32.84	--	--	1318.95
	10/31/2013					32.77	--	--	1319.02
	11/6/2013					32.23	--	--	1319.56
	11/13/2013					31.72	--	--	1320.07
	11/20/2013					30.80	--	--	1320.99
	11/26/2013					30.96	--	--	1320.83
	12/3/2013					30.63	--	--	1321.16
	12/11/2013					30.93	--	--	1320.86
	12/19/2013					31.75	--	--	1320.04
	12/27/2013					31.05	--	--	1320.74
	1/3/2014					NM	--	--	NM
	1/10/2014					31.10	--	--	1320.69
	1/16/2014					31.30	--	--	1320.49
	1/21/2014					31.61	--	--	1320.18
	1/27/2014					31.61	--	--	1320.18
	2/5/2014					NM	--	--	NM
	2/12/2014					NM	--	--	NM
	2/19/2014					31.82	--	--	1319.97
	2/26/2014					32.03	--	--	1319.76

Please refer to notes at end of table.

Table B-1
Groundwater Gauging Data
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
MW-15 (cont.)	3/4/2014	2.0	1351.79	45	25-45	32.10	--	--	1319.69
	3/13/2014					37.20	--	--	1314.59
	3/18/2014					37.00	--	--	1314.79
	3/27/2014					32.29	--	--	1319.50
	4/3/2014					32.60	--	--	1319.19
	4/7/2014					32.89	--	--	1318.90
	4/17/2014					33.69	--	--	1318.10
	4/22/2014					34.24	--	--	1317.55
	4/29/2014					34.95	--	--	1316.84
	5/8/2014					35.85	--	--	1315.94
	5/13/2014					35.89	--	--	1315.90
	5/20/2014					38.63	--	--	1313.16
	5/29/2014					36.85	--	--	1314.94
	6/3/2014					NM	--	--	NM
	6/10/2014					NM	--	--	NM
	6/18/2014					35.10	--	--	1316.69
	6/24/2014					34.65	--	--	1317.14
	7/1/2014					33.78	--	--	1318.01
	7/10/2014					33.35	--	--	1318.44
	7/15/2014					33.40	--	--	1318.39
	7/22/2014					33.29	--	--	1318.50
	7/31/2014					33.89	--	--	1317.90
	8/5/2014					34.04	--	--	1317.75
	8/14/2014					34.19	--	--	1317.60
	8/20/2014					34.28	--	--	1317.51
	8/26/2014					34.44	--	--	1317.35
	9/3/2014					34.65	--	--	1317.14
	9/10/2014					34.79	--	--	1317.00
	9/17/2014					34.98	--	--	1316.81
	9/24/2014					35.29	--	--	1316.50
	10/1/2014					35.51	--	--	1316.28
	10/8/2014					35.53	--	--	1316.26
	10/16/2014					35.61	--	--	1316.18
	10/21/2014					35.41	--	--	1316.38
	10/28/2014					35.16	--	--	1316.63
	11/4/2014					35.07	--	--	1316.72
	11/11/2014					35.02	--	--	1316.77
	11/25/2014					30.11	--	--	1321.68
	12/3/2014					35.37	--	--	1316.42
	12/9/2014					35.42	--	--	1316.37
	12/17/2014					NM	--	--	NM
	12/23/2014					35.13	--	--	1316.66
	12/31/2014					30.59	--	--	1321.20
	1/7/2015					NM	--	--	NM
	1/14/2015					NM	--	--	NM

Please refer to notes at end of table.

Table B-1
Groundwater Gauging Data
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
MW-15 (cont.)	1/20/2015	2.0	1351.79	45	25-45	34.93	--	--	1316.86
	1/28/2015					34.98	--	--	1316.81
	2/4/2015					35.12	--	--	1316.67
	2/9/2015					35.02	--	--	1316.77
	3/18/2015					35.04	--	--	1316.75
	4/20/2015					36.50	--	--	1315.29
	5/22/2015					34.53	--	--	1317.26
	6/15/2015					32.34	--	--	1319.45
	7/22/2015					32.94	--	--	-32.94
	8/20/2015					33.48	--	--	-33.48
	9/14/2015					33.05	--	--	-33.05
	10/20/2015					33.63	--	--	-33.63
	11/24/2015					33.33	--	--	-33.33
	12/14/2015					31.47	--	--	-31.47
	1/13/2016					31.10	--	--	-31.10
	2/16/2016					29.81	--	--	-29.81
	3/21/2016					31.22	--	--	-31.22
MW-16	9/30/2013	2.0	1352.13	45	25-45	31.60	--	--	1320.53
	10/10/2013					30.76	--	--	1321.37
	10/17/2013					30.79	--	--	1321.34
	10/23/2013					30.78	--	--	1321.35
	10/31/2013					30.80	--	--	1321.33
	11/6/2013					30.33	--	--	1321.80
	11/13/2013					30.01	--	--	1322.12
	11/20/2013					29.63	--	--	1322.50
	11/26/2013					29.71	--	--	1322.42
	12/3/2013					29.52	--	--	1322.61
	12/11/2013					29.71	--	--	1322.42
	12/19/2013					28.51	--	--	1323.62
	12/27/2013					29.97	--	--	1322.16
	1/3/2014					NM	--	--	NM
	1/10/2014					29.91	--	--	1322.22
	1/16/2014					29.70	--	--	1322.43
	1/21/2014					29.89	--	--	1322.24
	1/27/2014					29.60	--	--	1322.53
	2/5/2014					NM	--	--	NM
	2/12/2014					NM	--	--	NM
	2/19/2014					29.41	--	--	1322.72
	2/26/2014					29.68	--	--	1322.45
	3/4/2014					NM	--	--	NM
	3/13/2014					28.71	--	--	1323.42
	3/18/2014					29.50	--	--	1322.63
	3/27/2014					29.62	--	--	1322.51
	4/3/2014					29.86	--	--	1322.27
	4/7/2014					30.05	--	--	1322.08
	4/17/2014					30.84	--	--	1321.29
	4/22/2014					30.95	--	--	1321.18

Please refer to notes at end of table.

Table B-1
Groundwater Gauging Data
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
MW-16 (cont.)	4/29/2014	2.0	1352.13	45	25-45	31.30	--	--	1320.83
	5/8/2014					31.81	--	--	1320.32
	5/13/2014					31.84	--	--	1320.29
	5/20/2014					32.91	--	--	1319.22
	5/29/2014					32.81	--	--	1319.32
	6/3/2014					32.44	--	--	1319.69
	6/10/2014					NM	--	--	NM
	6/18/2014					31.31	--	--	1320.82
	6/24/2014					29.93	--	--	1322.20
	7/1/2014					29.65	--	--	1322.48
	7/10/2014					28.95	--	--	1323.18
	7/15/2014					28.82	--	--	1323.31
	7/22/2014					28.78	--	--	1323.35
	7/31/2014					29.19	--	--	1322.94
	8/5/2014					29.20	--	--	1322.93
	8/14/2014					29.09	--	--	1323.04
	8/20/2014					29.21	--	--	1322.92
	8/26/2014					29.23	--	--	1322.90
	9/3/2014					29.38	--	--	1322.75
	9/10/2014					29.58	--	--	1322.55
	9/17/2014					29.71	--	--	1322.42
	9/24/2014					29.95	--	--	1322.18
	10/1/2014					30.04	--	--	1322.09
	10/8/2014					30.08	--	--	1322.05
	10/16/2014					30.04	--	--	1322.09
	10/21/2014					29.69	--	--	1322.44
	10/28/2014					29.69	--	--	1322.44
	11/4/2014					30.06	--	--	1322.07
	11/11/2014					30.21	--	--	1321.92
	11/25/2014					NM	--	--	--
	12/3/2014					30.18	--	--	1321.95
	12/9/2014					30.30	--	--	1321.83
	12/17/2014					30.47	--	--	1321.66
	12/23/2014					30.38	--	--	1321.75
	12/31/2014					30.56	--	--	1321.57
	1/7/2015					NM	--	--	NM
	1/14/2015					NM	--	--	NM
	1/20/2015					30.71	--	--	1321.42
	1/28/2015					20.13	--	--	1332.00
	2/4/2015					30.76	--	--	1321.37
	2/9/2015					31.09	--	--	1321.04
	3/18/2015					31.80	--	--	1320.33
	4/20/2015					33.03	--	--	1319.10
	5/22/2015					31.56	--	--	1320.57
	6/15/2015					29.48	--	--	1322.65
	7/22/2015					29.13	--	--	1323.00
	8/20/2015					28.65	--	--	1323.48
	9/14/2015					28.49	--	--	1323.64

Please refer to notes at end of table.

Table B-1
Groundwater Gauging Data
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
MW-16 (cont.)	10/20/2015	2.0	1352.13	45	25-45	28.90	--	--	1323.23
	11/24/2015					29.15	--	--	1322.98
	12/14/2015					27.88	--	--	1324.25
	1/13/2016					28.29	--	--	1323.84
	2/16/2016					28.64	--	--	1323.49
	3/21/2016					29.33	--	--	1322.80
MW-17	3/18/2015		1351.69			NM	--	--	NM
	4/20/2015					33.91	--	--	1317.78
	5/22/2015					32.55	--	--	1319.14
	6/10/2015					31.15	--	--	1320.54
	6/15/2015					31.28	--	--	1320.41
	7/22/2015					NM	--	--	NM
	8/20/2015					31.19	--	--	1320.50
	9/14/2015					30.99	--	--	1320.70
	10/20/2015					32.57	--	--	1319.12
	11/24/2015					32.65	--	--	1319.04
	12/14/2015					32.00	--	--	1319.69
	1/13/2016					31.37	--	--	1320.32
	2/16/2016					31.46	--	--	1320.23
	3/21/2016					32.03	--	--	1319.66
MW-18	3/18/2015	2.0	1351.11	42	27-42	27.93	--	--	1323.18
	4/20/2015					33.51	--	--	1317.60
	5/22/2015					31.54	--	--	1319.57
	6/10/2015					30.50	--	--	1320.61
	6/15/2015					30.64	--	--	1320.47
	7/22/2015					30.84	--	--	1320.27
	8/20/2015					30.81	--	--	1320.30
	9/14/2015					30.53	--	--	1320.58
MW-18	11/24/2015		1351.04			30.99	--	--	1320.05
	12/14/2015					30.96	--	--	1320.08
	1/13/2016					30.56	--	--	1320.48
	2/16/2016					30.72	--	--	1320.32
	3/21/2016					30.82	--	--	1320.22
MW-19	3/18/2015		1351.13			35.19	--	--	1315.94
	4/20/2015					33.70	--	--	1317.43
	5/22/2015					31.67	--	--	1319.46
	6/10/2015					30.24	--	--	1320.89
	6/15/2015					30.60	--	--	1320.53
	7/22/2015					30.58	--	--	1320.55
	8/20/2015					30.65	--	--	1320.48
	9/14/2015					30.59	--	--	1320.54
MW-19	11/24/2015		1351.00			31.00	--	--	1320.00
	12/14/2015					31.06	--	--	1319.94
	1/13/2016					30.47	--	--	1320.53
	2/16/2016					30.69	--	--	1320.31
	3/21/2016					30.79	--	--	1320.21

Please refer to notes at end of table.

Table B-1
Groundwater Gauging Data
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
									Pond Stage (feet MSL)
Stormwater Pond	8/8/2013	NA	NA	NA	NA	NA	--	--	1344.75
	8/13/2013						--	--	1344.75
	8/21/2013						--	--	1344.50
	8/28/2013						--	--	1344.25
	9/5/2013						--	--	1344.25
	9/11/2013						--	--	1344.00
	9/17/2013						--	--	1344.00
	9/23/2013						--	--	1344.50
	10/3/2013						--	--	1344.50
	10/10/2013						--	--	1344.50
	10/17/2013						--	--	1344.00
	10/23/2013						--	--	1344.50
	10/31/2013						--	--	1345.00
	11/6/2013						--	--	1344.75
	11/13/2013						--	--	1344.50
	11/20/2013						--	--	1344.50
	11/26/2013						--	--	1344.25
	12/3/2013						--	--	1344.25
	12/11/2013						--	--	1344.75
	12/19/2013						--	--	1344.25
	12/27/2013						--	--	1344.25
	1/3/2014						--	--	NM
	1/10/2014						--	--	1344.00
	1/16/2014						--	--	1344.00
	1/21/2014						--	--	1344.00
	1/27/2014						--	--	NM
	2/5/2014						--	--	NM
	2/12/2014						--	--	NM
	2/19/2014						--	--	NM
	2/26/2014						--	--	1344.00
	3/4/2014						--	--	NM
	3/13/2014						--	--	1344.00
	3/18/2014						--	--	1344.00
	3/27/2014						--	--	1343.75
	4/3/2014						--	--	1344.00
	4/7/2014						--	--	1343.75
	4/17/2014						--	--	1343.50
	4/22/2014						--	--	1343.50
	4/29/2014						--	--	1345.00
	5/8/2014						--	--	Below gauge
	5/13/2014						--	--	Below gauge
	5/20/2014						--	--	Below gauge
	5/29/2014						--	--	1343.75

Please refer to notes at end of table.

Table B-1
Groundwater Gauging Data
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
									Pond Stage (feet MSL)
Stormwater Pond (cont.)	6/3/2014	NA	NA	NA	NA	NA	--	--	1344.50
	6/10/2014						--	--	1344.75
	6/18/2014						--	--	1344.50
	6/24/2014						--	--	1344.50
	7/1/2014						--	--	1344.60
	7/10/2014						--	--	1344.75
	7/15/2014						--	--	1344.50
	7/22/2014						--	--	1344.50
	7/31/2014						--	--	1344.50
	8/5/2014						--	--	1344.25
	8/14/2014						--	--	1344.50
	8/20/2014						--	--	1344.50
	8/26/2014						--	--	1344.25
	9/3/2014						--	--	1344.50
	9/10/2014						--	--	1344.25
	9/17/2014						--	--	1344.00
	9/24/2014						--	--	1344.00
	10/1/2014						--	--	1344.00
	10/8/2014						--	--	1344.25
	10/16/2014						--	--	1344.50
	10/21/2014						--	--	1344.50
	10/28/2014						--	--	1344.50
	11/4/2014						--	--	1344.50
	11/11/2014						--	--	1344.25
	11/25/2014						--	--	1344.00
	12/3/2014						--	--	1344.00
	12/9/2014						--	--	1344.25
	12/17/2014						--	--	1344.25
	12/23/2014						--	--	1344.25
	12/23/2014						--	--	1344.25
	12/31/2014						--	--	1344.25
	1/7/2015						--	--	NM
	1/14/2015						--	--	NM
	1/20/2015						--	--	1344.00
	1/28/2015						--	--	1343.80
	2/4/2015						--	--	1344.15
	2/9/2015						--	--	1344.10
	3/18/2015						--	--	1343.60
	4/20/2015						--	--	1344.75
	5/22/2015						--	--	1344.50
	6/10/2015						--	--	1344.50
	6/15/2015						--	--	1344.75
	7/22/2015						--	--	1344.50
	8/20/2015						--	--	1344.75

Please refer to notes at end of table.

Table B-1
Groundwater Gauging Data
Andover Colt Court Release Site
Andover, Kansas

Well ID	Measurement Date	Casing Diameter (inches)	Top of Casing Elevation (feet)[1]	Total Depth (feet bgs)	Screen Interval (feet bgs)	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	SPH Thickness (feet)	Groundwater Elevation (feet MSL)
Stormwater Pond (cont.)	9/14/2015	NA	NA	NA	NA	NA	--	--	1344.50
	10/22/2015						--	--	1344.75
	11/24/2015						--	--	1344.50
	12/14/2015						--	--	1344.75
	1/13/2016						--	--	1344.50
	2/16/2016						--	--	1344.50
	3/21/2016						--	--	1344.50

Notes:

1. feet MSL = Feet above mean sea level (NAVD88).
2. bgs = below ground surface.
3. -- = No SPH
4. DRY = Well was dry.
5. Pond elevation is measured directly from a staff gauge in the pond (in 0.25-foot increments). The top of the staff gauge is 1347.59 feet above mean sea level.
6. NA = Not applicable.
7. NM = Not measured.
8. Monitoring wells MW-18 and MW-19 were resurveyed on November 24, 2015.

Table B-2
Historical Groundwater Analytical Results – Monitoring and Irrigation Wells
Andover Colt Court Release Site
Andover, Kansas

Sample Location	Sample Date	GRO	LRH	MRH	1,2,4 Trimethylbenzene	1,2 Dichloroethane	1,3,5-Trimethylbenzene	2-Butanone	Benzene	Cyclohexane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methylcyclohexane	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	Toluene	Total Xylenes
		Concentrations in mg/L (ppm)																		
Monitoring Wells																				
MW-1	8/9/2013	120	--	--	0.86	<0.05	0.22	<0.1	9.1	0.37	1.9	<0.05	6.3	0.1	0.23	<0.05	0.068	2.8	26	9.1
	10/24/2013	39	--	--	0.69	<0.010	0.19	0.050	7.8	0.26	2.0	0.031	4.9	0.043	0.14	0.011	0.084	2.2	18	7.1
	1/30/2014	44	--	--	1.0	<0.025	0.30	<0.05	3.1	0.45	1.4	0.045	3.5	0.076	0.29	0.030	0.14	1.6	9.3	5.2
	4/9/2014	20	--	--	0.49	<0.010	0.18	<0.020	1.1	<0.01	0.2	0.011	--	0.023	0.069	0.018	0.016	--	3.1	2.5
	7/23/2014	49	--	--	0.39	<0.001	0.11	0.023	3.1	0.059	0.61	0.011	2.2	<0.010	0.044	<0.010	0.019	1.2	6.4	3.4
	10/29/2014	45	--	--	0.47	<0.010	0.19	<0.020	5.0	0.051	0.50	<0.010	3.4	0.015	0.043	<0.010	<0.010	2.2	12	5.5
	2/12/2015	5.8	--	--	<0.010	<0.010	<0.010	<0.020	0.26	<0.010	0.077	<0.010	0.64	0.016	0.022	<0.010	<0.010	0.36	0.99	0.99
	6/16/2015	140	--	--	0.32	<0.010	0.30	<0.020	5.2	0.12	0.47	0.011	5.3	<0.010	0.11	<0.010	0.012	2.8	11	8.1
	9/15/2015	67	--	--	0.61	<0.001	0.26	0.032	1.3	0.14	0.42	0.0095	--	0.019	0.065	0.017	0.020	--	2.4	4.4
	12/16/2015	38.3	--	--	0.51	<0.01	0.16	<0.10	5.7	0.113	1.26	0.0219	--	0.0138	0.0944	<0.01	0.046	--	7.81	4.91
	3/23/2016	10.1 j	3.94	8.07	0.498	0.000535 j	0.098 j	0.0062	0.675	0.033	0.139 j	0.00541j	--	0.00975	0.05 j	0.00317 j	0.016 j	--	0.401	2.2
KDHE Split	3/23/2016	16.7 j	2.9	5.7	0.462	<0.025 j	0.168 j	<0.025	0.73	--	0.197 j	0.0085 Jj	--	--	0.068 J j	0.019 J j	0.0251 j	--	0.406	2
MW-2	8/8/2013	2.3	--	--	<0.005	<0.005	<0.005	0.13	0.12	0.099	<0.005	<0.005	0.017	0.02	<0.005	<0.005	<0.005	<0.005	0.027	0.021
DUP	8/8/2013	2.2	--	--	<0.005	<0.005	<0.005	0.13	0.15	0.11	<0.005	<0.005	0.021	0.021	<0.005	<0.005	<0.005	<0.005	0.031	0.026
	10/23/2013	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	1/29/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/8/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/22/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/30/2014	0.11	--	--	0.0085	<0.001	0.0030	<0.002	0.0034	0.0038	0.018	<0.001	0.010	0.0013	0.0024	<0.001	0.0014	0.0097	0.0095	0.020
	2/10/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
DUP	2/10/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/16/2015	0.089	--	--	<0.001	<0.001	<0.001	<0.002	0.0013	<0.001	<0.001	<0.001	0.0052	<0.001	<0.001	<0.001	<0.001	0.0026	0.0089	0.0078
	9/16/2015	<0.050	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/21/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	0.0032	<0.0005	<0.0005	--	<0.0005	<0.0015
MW-3	8/9/2013	6	--	--	0.054	<0.005	0.010	0.016	1.2	0.070	0.12	<0.005	0.086	0.014	0.011	<0.005	0.0074	0.12	0.4	0.21
	10/24/2013	1.7	--	--	0.075	<0.001	0.012	0.0057	1.1	0.082	0.12	0.0061	0.065	0.011	0.017	0.010	0.010	0.011	0.051	0.077
DUP	10/24/2013	2.0	--	--	0.073	<0.001	0.012	0.0059	1.1	0.077	0.11	0.0058	0.063	0.011	0.018	0.001	0.010	0.011	0.051	0.075
	1/28/2014	2.8	--	--	0.038	<0.001	<0.001	0.0069	0.76	0.072	0.07	0.0062	0.0098	0.0061	0.0081	<0.001	0.0079	<0.001	0.0081	0.011
	4/8/2014	3.0	--	--	0.048	<0.005	0.010	<0.01	0.64	<0.005	0.058	0.0061	--	0.0075	0.014	<0.005	0.011	--	0.1	0.053
	7/24/2014	9.8	--	--	0.16	<0.010	0.037	<0.020	1.8	0.081	0.51	<0.010	0.32	<0.010	0.028	<0.010	0.023	0.51	1.6	0.83
	10/30/2014	6.1	--	--	0.12	<0.010	0.025	<0.020	1.1	0.085	0.36	<0.010	0.17	0.019	0.029	<0.010	0.018	0.18	0.15	0.35
	2/10/2015	7.9	--	--	0.19	<0.010	0.047	<0.020	1.4	0.15	0.52	0.014	0.41	0.034	0.054	<0.010	0.032	0.32	0.93	0.73
	6/17/2015	21	--	--	0.46	<0.005	0.11	<0.01	1.6	0.016	0.95	0.030	0.92	0.029	0.10	0.031	0.078	0.57	1.5	1.5
	9/15/2015	11	--	--	0.28	<0.005	0.054	<0.01	1.2	0.19	0.65	0.023	--	0.020	0.039	<0.005	0.057	--	0.045	0.27
DUP	9/15/2015	11	--	--	0.089	<0.005	0.079	<0.01	0.98	0.23	0.77	0.032	--	0.031	0.086	0.012	0.070	--	0.048	0.37
	12/16/2015	5	--	--	0.241	<0.005	0.0317	<0.05	0.849	0.151	0.643	0.026	--	0.0215	0.054	<0.005	0.061	--	<0.025	<0.015
	3/23/2016	1.55	1.26	0.51	0.0251 j	<0.0005	0.00144 j	<0.0025	0.257 j	0.0421	0.192	0.00743	--	<0.001	0.0156	0.000787 j	0.0191	--	0.00172 j	<0.0075
KDHE Split	3/23/2016	1.9 J	1.4	0.6	0.0333 j	<0.005	0.0028 J j	<0.05	0.346 j	--	0.227	0.0099	--	--	0.0198 J	0.0016 J j	0.0246	--	0.0026 J j	<0.015

Please refer to notes at end of table.

Table B-2
Historical Groundwater Analytical Results – Monitoring and Irrigation Wells
Andover Colt Court Release Site
Andover, Kansas

Sample Location	Sample Date	GRO	LRH	MRH	1,2,4 Trimethylbenzene	1,2 Dichloroethane	1,3,5-Trimethylbenzene	2-Butanone	Benzene	Cyclohexane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methylcyclohexane	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	Toluene	Total Xylenes
		Concentrations in mg/L (ppm)																		
MW-4	8/8/2013	0.48	--	--	0.0013	<0.001	0.0013	<0.002	**0.035**	0.012	0.0075	0.0013	0.027	0.0027	**0.0027**	<0.001	0.0022	0.011	0.056	0.038
	10/23/2013	1.0	--	--	**0.0096**	<0.001	0.016	0.0046	**0.083**	0.050	0.017	<0.0010	0.0071	0.0085	**0.0036**	<0.001	0.0013	0.034	0.034	0.041
	1/28/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/8/2014	2.5	--	--	**0.054**	<0.001	0.027	0.0043	**0.23**	0.070	0.15	0.0039	--	0.0071	**0.016**	0.0022	0.0084	--	0.2	0.14
	7/24/2014	0.75	--	--	**0.047**	<0.001	0.017	<0.002	**0.11**	0.022	0.049	0.0029	0.043	0.0027	**0.0092**	<0.001	0.0070	0.028	0.015	0.070
DUP	7/24/2014	0.79	--	--	**0.054**	<0.001	0.019	<0.002	**0.11**	0.025	0.057	0.0033	0.050	0.0031	**0.0098**	0.0017	0.0080	0.032	0.017	0.083
	10/30/2014	4.8	--	--	**0.20**	<0.001	**0.089**	<0.002	**0.49**	0.097	0.40	0.014	0.20	0.017	**0.062**	0.0078	0.039	0.24	0.33	0.44
	2/10/2015	1.6	--	--	**0.12**	<0.001	**0.058**	<0.002	**0.17**	0.052	0.12	0.0042	0.022	0.0092	**0.019**	0.0058	0.0077	0.081	0.042	0.10
	6/16/2015	0.14	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	0.0013	<0.001	0.0046	<0.001	<0.001	<0.001	<0.001	0.003	0.0059	0.0077
	9/16/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	0.000725	<0.0005	<0.0005	--	<0.0005	<0.0015
MW-5	8/8/2013	**0.94**	--	--	**0.015**	<0.001	**0.15**	<0.002	**0.038**	0.24	0.002	0.0018	0.11	0.0046	**0.0084**	<0.001	0.0023	0.0068	0.05	0.17
	10/24/2013	2.1	--	--	**0.098**	<0.001	0.028	<0.002	**0.081**	0.039	0.063	0.0051	0.20	0.0075	**0.023**	0.0026	0.011	0.12	0.10	0.32
	1/30/2014	0.61	--	--	**0.038**	0.0012	0.011	<0.002	**0.05**	0.018	0.034	0.0022	0.041	0.0017	**0.0086**	<0.001	0.0046	0.033	0.009	0.075
	4/8/2014	0.35 J	--	--	0.0051 J	<0.001	0.0013 J	0.0021 J	**0.025 J**	<0.001	0.0018 J	0.0021 J	--	0.0015 J	**0.0085 J**	<0.001	<0.001	--	0.0024 J	0.041 J
DUP	4/8/2014	**0.52 J**	--	--	**0.012 J**	<0.001	0.0035 J	0.0033 J	**0.037 J**	<0.001	0.0058 J	0.003 J	--	0.0019 J	**0.013 J**	0.001	0.0014 J	--	0.0061 J	0.06 J
	7/23/2014	<0.050	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	**0.0014**	<0.001	<0.001	<0.001	<0.001	<0.003
DUP	7/23/2014	<0.050	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	**0.0013**	<0.001	<0.001	<0.001	<0.001	<0.003
	10/29/2014	<0.050	--	--	<0.001	<0.001	<0.001	<0.002	0.0018	<0.001	<0.001	<0.001	0.0048	<0.001	<0.001	<0.001	<0.001	0.0027	0.010	0.0075
	2/10/2015	0.27	--	--	**0.0092**	<0.001	0.0024	<0.002	**0.040**	0.016	0.0071	0.0020	0.0068	0.0030	**0.0069**	0.0016	0.0021	0.011	0.0092	0.018
	6/16/2015	<0.050	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	9/16/2015	<0.050	--	--	<0.001	<0.001	<0.001	<0.002	0.0024	<0.001	<0.001	<0.001	--	<0.001	**0.0021**	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	0.00318 j	<0.0005	0.00154 j	<0.0025	0.00446 j	0.00415	0.0031 j	0.000686	--	<0.001	**0.0029**	<0.0005	0.000897 j	--	0.00181 j	0.00348
Duplicate	3/22/2016	<0.10	<0.10	<0.10	0.00433 j	<0.0005	0.00205 j	<0.0025	**0.00618 j**	0.00399	0.00443 j	0.000945	--	<0.001	**0.00324**	<0.0005	0.00129 j	--	0.00252 j	0.00446
MW-6	8/9/2013	<0.05	--	--	<0.001	<0.001	<0.001	0.0029	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.0026**	<0.001	<0.001	<0.001	<0.001	<0.003
	10/24/2013	<0.05	--	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
DUP	10/24/2013	<0.05	--	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	1/30/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/8/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/24/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	0.0031	<0.001	0.0032	<0.001	0.0027	<0.001	<0.001	<0.001	<0.001	0.0031	0.0083	0.0059
	10/29/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	0.0028	<0.001	<0.001	<0.001	<0.001	0.0014	0.0052	0.0042
	2/11/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
DUP	2/11/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/17/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	9/15/2015	0.24	--	--	0.0017	<0.001	<0.001	<0.002	0.0022	<0.001	0.0022	<0.001	--	<0.001	**0.0020**	<0.001	<0.001	--	0.0076	0.010
	10/22/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/16/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015

Please refer to notes at end of table.

Table B-2
Historical Groundwater Analytical Results – Monitoring and Irrigation Wells
Andover Colt Court Release Site
Andover, Kansas

Sample Location	Sample Date	GRO	LRH	MRH	1,2,4 Trimethylbenzene	1,2 Dichloroethane	1,3,5-Trimethylbenzene	2-Butanone	Benzene	Cyclohexane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methylcyclohexane	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	Toluene	Total Xylenes
		Concentrations in mg/L (ppm)																		
MW-7	8/9/2013	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	0.0012	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0014	<0.003
	10/24/2013	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	1/30/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/8/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/24/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0016	<0.003
	10/29/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0024	<0.003
	2/11/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/17/2015	0.089	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	9/15/2015	0.11	--	--	0.0027	<0.001	<0.001	<0.002	0.0029	<0.001	0.0031	<0.001	--	<0.001	**0.0024**	<0.001	<0.001	--	0.0088	0.014
	10/22/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/16/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015
MW-8	8/8/2013	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/24/2013	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	1/30/2014	0.16	--	--	0.0026	<0.001	0.001	<0.002	0.0030	<0.001	0.0049	<0.001	0.013	<0.001	**0.0041**	<0.001	<0.001	0.0056	0.020	0.018
DUP	1/30/2014	0.15	--	--	0.0031	<0.001	0.001	<0.002	0.0038	<0.001	0.0056	0.0011	0.014	<0.001	**0.0040**	<0.001	<0.001	0.0064	0.025	0.021
	4/8/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/22/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/29/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	0.0014	<0.001	<0.001	<0.001	0.0041	<0.001	<0.001	<0.001	<0.001	0.0024	0.0082	0.0065
DUP	10/29/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	0.0013	<0.001	<0.001	<0.001	0.0041	<0.001	<0.001	<0.001	<0.001	0.0021	0.0081	0.0063
	2/10/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/17/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0017	<0.003
	9/16/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/23/2016	<0.10	<0.10	<0.10	<0.0005 j	<0.0005	<0.0005	<0.0025	<0.0005 j	<0.001	0.00074	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015
KDHE Split	3/23/2016	<0.50	<0.05	<0.06	0.00015 J j	<0.001	<0.001	<0.01	0.00048 Jj	--	0.00094 J	<0.001	--	--	<0.01	<0.001	<0.001	--	<0.001	<0.003
MW-9	8/9/2013	**36**	--	--	**0.82**	<0.001	**0.23**	0.23	**0.99**	0.21	0.65	0.025	2.8	0.048	**0.17**	0.014	0.068	1.3	**4.4**	4.1
	10/23/2013	0.054	--	--	<0.001	<0.001	<0.001	<0.002	0.0026	0.0011	<0.001	<0.001	<0.002	0.0025	**0.001**	<0.001	<0.001	<0.001	<0.001	<0.003
	11/25/2013	**0.57**	--	--	**0.022**	<0.010	0.013	0.004	**0.058**	0.017	0.0019	<0.001	0.019	0.0028	**0.0084**	<0.001	<0.001	0.018	0.005	0.037
	1/28/2014	0.058	--	--	<0.001	<0.001	<0.001	<0.002	0.0046	0.0015	<0.001	<0.001	<0.002	<0.001	**0.0033**	<0.001	<0.001	<0.001	<0.001	<0.003
	4/8/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
DUP	4/8/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/24/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	0.0017	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0034	<0.003
	10/30/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0026	<0.003
DUP	10/30/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0023	<0.003
	2/11/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/16/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0053	<0.003
	9/15/2015	<0.05	--	--	0.0016	<0.001	<0.001	<0.002	0.0019	<0.001	0.0031	<0.001	--	<0.001	**0.0021**	<0.001	<0.001	--	0.0022	0.0043
	10/22/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015
Duplicate	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015

Please refer to notes at end of table.

Table B-2
Historical Groundwater Analytical Results – Monitoring and Irrigation Wells
Andover Colt Court Release Site
Andover, Kansas

Sample Location	Sample Date	GRO	LRH	MRH	1,2,4 Trimethylbenzene	1,2 Dichloroethane	1,3,5-Trimethylbenzene	2-Butanone	Benzene	Cyclohexane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methylcyclohexane	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	Toluene	Total Xylenes
		Concentrations in mg/L (ppm)																		
MW-10	8/9/2013	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/23/2013	**2.6**	--	--	**0.033**	<0.001	0.029	0.014	**0.051**	0.069	0.0034	<0.001	0.27	0.021	**0.0013**	0.0014	<0.001	0.15	0.14	0.42
	11/25/2013	**3.7**	--	--	**0.22**	<0.001	**0.072**	0.019	**0.016**	0.081	0.027	0.0065	0.26	0.016	**0.023**	<0.001	0.025	0.12	0.048	0.38
	1/28/2014	**1.1**	--	--	**0.12**	<0.001	0.039	0.0023	**0.026**	0.0081	0.036	0.0049	0.073	0.0036	**0.014**	0.0064	0.015	0.05	0.048	0.12
	4/8/2014	**8.8**	--	--	**0.56**	<0.005	**0.23**	<0.01	**0.12**	<0.005	0.11	0.011	--	0.026	**0.035**	<0.005	<0.005	--	0.3	1.1
	8/1/2014	0.091	--	--	<0.001	<0.001	<0.001	0.0066	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/29/2014	0.066	--	--	<0.001	<0.001	<0.001	<0.002	0.0021	<0.001	<0.001	<0.001	0.0058	<0.001	<0.001	<0.001	<0.001	0.0034	0.013	0.0092
	2/11/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/16/2015	0.35	--	--	<0.001	<0.001	<0.001	0.0029	0.0024	0.0032	<0.001	<0.001	0.0040	0.0045	<0.001	<0.001	<0.001	0.0021	0.0068	0.0062
	9/15/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	0.0014	<0.001	--	<0.001	**0.0019**	<0.001	<0.001	--	0.0016	<0.003
	10/22/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	0.212	--	--	<0.001	<0.001	<0.001	<0.01	**0.00819**	0.0336	<0.001	<0.001	--	0.00514	<0.005	<0.001	<0.001	--	<0.005	0.00577
	3/23/2016	<0.10	<0.10 j	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	0.000703	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015
KDHE Split	3/23/2016	<0.50	0.025 J j	<0.06	0.00021 J	0.00023 J	<0.001	<0.01	0.00079 J	--	<0.001	<0.001	--	--	<0.01	<0.001	<0.001	--	<0.001	<0.003
MW-11	10/23/2013	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	0.0024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	1/29/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	0.0024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/8/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/23/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/30/2014	0.25	--	--	**0.016**	<0.001	0.0058	<0.02	**0.012**	0.0078	0.038	0.0011	0.021	0.0014	**0.0059**	<0.001	0.0024	0.023	0.023	0.044
	2/10/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	0.0010	<0.001	<0.002	<0.001	**0.0034**	<0.001	<0.001	<0.001	<0.001	<0.003
	6/17/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0032	<0.003
DUP	6/17/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0035	<0.003
	9/16/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/21/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015
MW-12	10/23/2013	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	0.0026	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	1/28/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/9/2014	0.081	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/22/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/29/2014	0.12	--	--	0.0011	<0.001	<0.001	<0.002	**0.0050**	<0.001	0.0017	<0.001	0.010	<0.001	<0.001	<0.001	<0.001	0.0063	0.027	0.016
	2/12/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	0.0054	<0.001	<0.001	<0.001	<0.001	0.0029	0.0064	0.0083
	6/16/2015	0.061	--	--	<0.001	<0.001	<0.001	<0.002	0.0014	<0.001	0.0013	<0.001	0.0058	<0.001	<0.001	<0.001	<0.001	0.0028	0.011	0.0086
	9/15/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	**0.0018**	<0.001	<0.001	--	0.0013	<0.003
	10/22/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/16/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015

Please refer to notes at end of table.

Table B-2
Historical Groundwater Analytical Results – Monitoring and Irrigation Wells
Andover Colt Court Release Site
Andover, Kansas

Sample Location	Sample Date	GRO	LRH	MRH	1,2,4 Trimethylbenzene	1,2 Dichloroethane	1,3,5-Trimethylbenzene	2-Butanone	Benzene	Cyclohexane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methylcyclohexane	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	Toluene	Total Xylenes
		Concentrations in mg/L (ppm)																		
MW-13	10/23/2013	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	0.0032	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	1/30/2014	0.072	--	--	0.0014	<0.001	<0.001	<0.002	0.0011	<0.001	0.0024	<0.001	0.0063	<0.001	**0.0038**	<0.001	<0.001	0.0026	0.0083	0.0089
	4/8/2014	<0.050	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/22/2014	<0.050	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/29/2014	0.056	--	--	<0.001	<0.001	<0.001	<0.002	0.0028	<0.001	0.0011	<0.001	0.0065	<0.001	<0.001	<0.001	<0.001	0.0040	0.015	0.011
	2/10/2015	<0.050	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/17/2015	<0.050	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0019	<0.003
	9/16/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
DUP	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/21/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015
MW-14	10/23/2013	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	1/30/2014	<0.05	--	--	0.0011	<0.001	<0.001	<0.002	<0.001	<0.001	0.0016	<0.001	0.0043	<0.001	<0.001	<0.001	<0.001	0.0017	0.0059	0.0061
	4/9/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/22/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/29/2014	**0.54**	--	--	0.0029	<0.001	0.0013	<0.002	**0.021**	<0.001	0.0049	<0.001	0.036	<0.001	<0.001	<0.001	<0.001	0.022	0.10	0.058
	2/12/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/17/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0016	<0.003
	9/16/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015
MW-15	10/24/2013	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	0.0026	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	1/28/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	0.0026	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/8/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/23/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/29/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	0.0012	<0.001	<0.001	<0.001	0.0030	<0.001	<0.001	<0.001	<0.001	0.0018	0.0072	0.0048
	2/10/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/17/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0043	<0.003
	9/16/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	**0.0018**	<0.001	<0.001	--	0.0018	<0.003
	10/22/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/21/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015

Please refer to notes at end of table.

Table B-2
Historical Groundwater Analytical Results – Monitoring and Irrigation Wells
Andover Colt Court Release Site
Andover, Kansas

Sample Location	Sample Date	GRO	LRH	MRH	1,2,4 Trimethylbenzene	1,2 Dichloroethane	1,3,5-Trimethylbenzene	2-Butanone	Benzene	Cyclohexane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methylcyclohexane	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	Toluene	Total Xylenes
		Concentrations in mg/L (ppm)																		
MW-16	10/23/2013	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	0.0027	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	1/28/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
DUP	1/28/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/8/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/23/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/29/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	0.0026	<0.001	<0.001	<0.001	<0.001	0.0014	0.0050	0.0040
	2/10/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/17/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.0029	<0.003
	9/16/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/21/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015
MW-17	6/16/2015	**95**	--	--	**0.19**	<0.001	**0.31**	0.044	**2.0**	0.37	**1.5**	0.044	3.4	0.038	**0.14**	0.015	0.10	1.8	**6.8**	5.2
	9/15/2015	**13**	--	--	**0.45**	<0.001	**0.11**	0.0061	**0.71**	0.23	0.59	0.026	--	0.031	**0.068**	<0.001	0.061	--	0.46	1.0
	12/16/2015	**2.24**	--	--	**0.052**	<0.001	0.00125	<0.01	**0.27**	0.08	0.153	0.00807	--	0.0142	**0.0125**	<0.001	0.014	--	0.0619	0.1
	3/22/2016	**3.03**	**2.05**	**1.27**	**0.0431**	<0.0005	0.00223	<0.0025	**0.338**	0.0821	0.0226	0.00467	--	0.00918	**0.00584**	<0.0005	0.002	--	0.0464	0.0699
MW-18	6/16/2015	**6.3**	--	--	**0.021**	<0.001	0.021	<0.002	**0.26**	0.036	0.12	0.0041	0.24	0.0035	**0.015**	0.0016	0.0089	0.17	0.59	0.41
	9/15/2015	**3.0**	--	--	**0.069**	<0.001	0.019	<0.002	**0.26**	0.036	0.12	0.0040	--	0.0036	**0.019**	<0.001	0.0089	--	0.090	0.29
DUP	9/15/2015	**3.2**	--	--	**0.023**	<0.001	0.017	<0.002	**0.25**	0.037	0.11	0.0043	--	0.0041	**0.022**	0.0018	0.0090	--	0.097	0.28
	12/15/2015	<0.10	--	--	<0.001 J	<0.001	<0.001	<0.01	**0.00929 J**	0.00178 J	0.00446 J	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
DUP	12/15/2015	<0.10	--	--	0.00154 J	<0.001	<0.001	<0.01	**0.0177 J**	0.00382 J	0.00771 J	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	**0.923**	**0.563**	**0.15**	**0.0116**	<0.0005	0.00266	<0.0025	**0.107**	0.0214	0.0628	0.00227	--	0.00251	**0.00365**	<0.0005	0.0048	--	0.0107	0.0135
MW-19	6/16/2015	**0.99 J**	--	--	**0.024 J**	<0.001	0.0074	<0.002	**0.11**	0.013	0.045	0.0015	0.16	<0.001	**0.0029 J**	<0.001	0.0031	0.068	0.30	0.23
DUP	6/16/2015	**2.5 J**	--	--	0.0071 J	<0.001	0.0062	<0.002	**0.11**	0.012	0.046	0.0016	0.13	<0.001	**0.0051 J**	<0.001	0.0027	0.067	0.30	0.19
	9/15/2015	**1.4**	--	--	**0.020**	<0.001	0.0051	0.0044	**0.11**	0.016	0.037	0.0015	--	0.0016	**0.0034**	<0.001	0.0030	--	0.15	0.16
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	**0.00545**	0.00105	0.00169	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	0.00221	<0.001	0.000875	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015
Irrigation Wells																				
2001 N Colt Ct	6/16/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	9/14/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005 j	<0.0005	<0.0005	<0.0025	<0.0005 j	<0.001 j	<0.0005 j	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015 j
Duplicate	3/22/2016	<0.10	<0.10	<0.10	0.000852 j	<0.0005	<0.0005	<0.0025	0.00188 j	0.00114 j	0.000685 j	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	0.00156 j
2004 N Colt Ct	6/16/2015	0.056	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	9/14/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/21/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015

Please refer to notes at end of table.

Table B-2
Historical Groundwater Analytical Results – Monitoring and Irrigation Wells
Andover Colt Court Release Site
Andover, Kansas

Sample Location	Sample Date	GRO	LRH	MRH	1,2,4 Trimethylbenzene	1,2 Dichloroethane	1,3,5-Trimethylbenzene	2-Butanone	Benzene	Cyclohexane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methylcyclohexane	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	Toluene	Total Xylenes
		Concentrations in mg/L (ppm)																		
Irrigation Wells																				
2005 N Colt Ct	7/26/2013	**6.6**	--	--	**0.16**	<0.005	**0.045**	0.019	**0.47**	0.09	0.13	<0.005	0.27	0.014	**0.027**	<0.005	0.013	0.17	0.34	0.44
	10/24/2013	**4.2**	--	--	**0.14**	<0.001	0.022	<0.002	**0.31**	0.073	0.19	0.0055	0.27	0.012	**0.023**	0.0039	0.017	0.15	0.35	0.42
	1/31/2014	**3.7**	--	--	**0.13**	0.0041	0.029	<0.002	**0.15**	0.07	0.17	0.0057	0.26	0.01	**0.017**	0.0034	0.018	0.14	0.33	0.40
	4/10/2014	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/23/2014	0.39	--	--	**0.018**	<0.001	0.0039	<0.002	**0.027**	0.011	0.023	<0.001	0.025	0.0019	**0.0025**	<0.001	0.0022	0.019	0.043	0.044
	10/30/2014	**2.2**	--	--	**0.077**	<0.001	0.0094	<0.002	**0.23**	0.055	0.19	0.0043	0.078	0.0091	**0.017**	0.0013	0.014	0.043	0.21	0.12
	2/12/2015	**1.4**	--	--	**0.039**	<0.001	0.0091	<0.002	**0.059**	0.022	0.041	0.0013	0.053	0.0039	**0.0045**	<0.001	0.0044	0.034	0.11	0.088
	6/16/2015	**2.3**	--	--	**0.012**	<0.001	0.013	<0.002	**0.066**	0.027	0.066	0.0027	0.081	0.0039	**0.0095**	<0.001	0.0069	0.087	0.18	0.17
	9/14/2015	**4.9**	--	--	**0.082**	<0.001	0.020	<0.002	**0.18**	0.053	0.15	0.0038	--	0.010	**0.013**	<0.001	0.012	--	0.68	0.34
DUP	9/14/2015	**5.2**	--	--	**0.090**	<0.001	0.022	<0.002	**0.20**	0.051	0.17	0.0044	--	0.0090	**0.013**	<0.001	0.013	--	0.70	0.38
	12/15/2015	**2.75**	--	--	**0.0672**	<0.001	0.0169	<0.01	**0.109**	0.0284	0.127	0.00317	--	0.00434	**0.0136**	<0.001	0.00952	--	0.418	0.28
	3/21/2016	**3.42**	**4.54**	**1.37**	**0.229**	<0.01	**0.0601**	<0.05	**0.164**	0.0721	0.320	<0.01	--	<0.02	**0.0330**	<0.01	0.0302	--	0.845	0.727
2002 N Colt Ct	7/26/2013	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	0.0047	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/24/2013	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.0010	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
DUP	10/24/2013	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.0010	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	1/31/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.0010		<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/10/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/23/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/30/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	2/12/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/16/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	9/14/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015
HOA-1	8/20/2013	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/25/2013	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	1/29/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/10/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/23/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/30/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	2/12/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
DUP	2/12/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/17/2015	0.076	--	--	0.0018	<0.001	<0.001	<0.002	**0.011**	0.0019	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	0.0067	<0.001	0.0067
	9/14/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/16/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
DUP	12/16/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015

Please refer to notes at end of table.

Table B-2
Historical Groundwater Analytical Results – Monitoring and Irrigation Wells
Andover Colt Court Release Site
Andover, Kansas

Sample Location	Sample Date	GRO	LRH	MRH	1,2,4 Trimethylbenzene	1,2 Dichloroethane	1,3,5-Trimethylbenzene	2-Butanone	Benzene	Cyclohexane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methylcyclohexane	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	Toluene	Total Xylenes
		Concentrations in mg/L (ppm)																		
HOA-2	10/31/2013	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	1/29/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/10/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/24/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/30/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	2/12/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
2006 N Colt Ct	6/12/2012	--	--	--	--	<0.005	--	<0.0020	**17**	3.0	**14**	**0.64**	46	1.1	**5.2**	--	--	19	**91**	**65**
	4/10/2014	**23**	--	--	**0.75**	<0.005	**0.28**	0.026	**0.98**	0.16	0.36	0.016	--	0.038	**0.076**	<0.005	0.048	--	**2**	2.1
	6/16/2015	**140**	--	--	**1.8**	<0.025	**0.55**	<0.05	**2.1**	0.42	**2.2**	0.073	6.0	0.063	**0.19**	0.046	0.24	3.0	**9.9**	9.0
	9/15/2015	**29**	--	--	**0.82**	<0.005	**0.21**	<0.01	**1.1**	0.28	**1.2**	0.039	--	0.055	**0.12**	<0.005	0.100	--	**1.7**	2.8
	12/16/2015	**39.6**	--	--	**1.12**	<0.025	**0.278**	<0.25	**1.74**	0.151	**1.48**	0.0419	--	0.039	**0.201**	<0.025	0.111	--	**3.39**	4.71
	3/22/2016	**13.3**	**5.43**	**4.01**	**0.564**	<0.0125	**0.124**	<0.0625	**0.628**	0.102	**0.794**	0.0257	--	<0.025	**0.0898**	<0.0125	0.0698	--	0.899	2.00
2007 N Colt Ct	7/26/2013	**0.71**	--	--	**0.018**	<0.001	0.0061	<0.002	**0.14**	0.018	0.01	0.0014	0.025	0.002	**0.0052**	<0.001	0.002	0.024	0.045	0.048
	10/25/2013	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/29/2014	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/10/2014	NS	--	--	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/23/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/30/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	2/12/2015	0.40	--	--	**0.025**	<0.001	<0.001	<0.002	**0.052**	0.019	0.027	<0.001	0.023	0.0018	**0.0039**	<0.001	0.0025	0.0025	0.022	0.025
	6/16/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	9/14/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	0.000835	<0.0005	<0.0005	<0.0025	0.00184	0.00109	0.000643	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	0.00156
2019 N Ruger Cir	8/9/2013	0.42	--	--	<0.001	<0.001	<0.001	<0.002	**0.085**	0.026	0.0034	0.0013	0.0046	0.0035	**0.0021**	<0.001	0.0016	0.0034	0.017	0.0081
	10/25/2013	0.28	--	--	**0.015**	<0.001	<0.001	<0.002	**0.13**	0.0084	0.0062	<0.0010	<0.0020	0.0030	0.0010	<0.001	<0.001	<0.001	0.0011	<0.003
	1/29/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/10/2014	<0.050	--	--	<0.001	<0.001	<0.001	0.0032	0.0048	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/23/2014	0.17	--	--	0.0018	<0.001	<0.001	<0.002	**0.069**	0.0051	<0.001	<0.001	--	<0.001	**0.0016**	<0.001	<0.001	0.0048	0.002	0.0055
	10/28/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	2/11/2015	0.12	--	--	<0.001	<0.001	<0.001	<0.002	**0.053**	0.0054	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/17/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/17/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	9/14/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	**0.0050**	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015
Duplicate	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015

Please refer to notes at end of table.

Table B-2
Historical Groundwater Analytical Results – Monitoring and Irrigation Wells
Andover Colt Court Release Site
Andover, Kansas

Sample Location	Sample Date	GRO	LRH	MRH	1,2,4 Trimethylbenzene	1,2 Dichloroethane	1,3,5-Trimethylbenzene	2-Butanone	Benzene	Cyclohexane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methylcyclohexane	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	Toluene	Total Xylenes
		Concentrations in mg/L (ppm)																		
2020 N Ruger Cir	7/26/2013	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	0.0015	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/25/2013	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	2/20/2014	0.075	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/10/2014	0.38	--	--	<0.001	<0.001	<0.001	0.16	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/23/2014	0.059	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/28/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	2/11/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
DUP	2/11/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/16/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	9/14/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015
2028 N Ruger Cir	8/20/2013	0.47	--	--	<0.001	<0.001	<0.001	<0.002	**0.011**	0.042	<0.001	<0.001	<0.002	0.0051	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/25/2013	<0.05	--	--	<0.001	<0.001	<0.001	0.015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	1/30/2014	<0.05	--	--	<0.001	<0.001	<0.001	0.015	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/10/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
DUP	4/10/2014	0.066	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/23/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
DUP	7/23/2014	<0.05	--	--	<0.001	<0.001	<0.001	0.0037	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/28/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
DUP	10/28/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	2/11/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/17/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	9/15/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015
2032 N Ruger Cir	8/20/2013	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/25/2013	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	1/29/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/10/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	7/23/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.03
	10/28/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.03
	2/11/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/17/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	9/15/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015

Please refer to notes at end of table.

Table B-2
Historical Groundwater Analytical Results – Monitoring and Irrigation Wells
Andover Colt Court Release Site
Andover, Kansas

Sample Location	Sample Date	GRO	LRH	MRH	1,2,4 Trimethylbenzene	1,2 Dichloroethane	1,3,5-Trimethylbenzene	2-Butanone	Benzene	Cyclohexane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methylcyclohexane	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	Toluene	Total Xylenes
		Concentrations in mg/L (ppm)																		
2021 N Ruger Ct	8/28/2013	<0.050	--	--	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0030
	10/25/2013	<0.050	--	--	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0030
	1/29/2014	<0.05	--	--	<0.001	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0030
	4/10/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0030
	7/23/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.0020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0030
	10/30/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.0020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0030
	2/11/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.0020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0030
	6/17/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.0020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0030
	9/15/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015
2025 N Ruger Ct	8/28/2013	<0.050	--	--	0.0028	<0.0010	0.0012	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0030
	10/25/2013	<0.050	--	--	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0030
	1/31/2014	<0.050	--	--	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0030
	4/10/2014	<0.050	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0030
	7/23/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.0020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0030
	10/30/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.0020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0030
	2/11/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.0020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0030
	6/17/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.0020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0030
	9/15/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015
1009 W Mountain	8/20/2013	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/24/2013	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	1/31/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/10/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/23/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/30/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	2/11/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/16/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	9/16/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/16/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015

Please refer to notes at end of table.

Table B-2
Historical Groundwater Analytical Results – Monitoring and Irrigation Wells
Andover Colt Court Release Site
Andover, Kansas

Sample Location	Sample Date	GRO	LRH	MRH	1,2,4 Trimethylbenzene	1,2 Dichloroethane	1,3,5-Trimethylbenzene	2-Butanone	Benzene	Cyclohexane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methylcyclohexane	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	Toluene	Total Xylenes
		Concentrations in mg/L (ppm)																		
2007 N Mountain Ct	10/24/2013	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	1/31/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/10/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/23/2014	<0.05	--	--	<0.0010	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/30/2014	<0.05	--	--	<0.0010	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	2/11/2015	<0.05	--	--	<0.0010	<0.001	<0.001	0.014	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/16/2015	<0.05	--	--	<0.0010	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	0.0012	0.0013	<0.003
	9/15/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/16/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015
2009 N Mountain Ct	8/20/2013	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/24/2013	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	1/29/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/10/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/23/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/28/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	2/11/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/16/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	9/15/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/16/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015
1211 W Quail Crossing Ct	8/20/2013	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/25/2013	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	1/31/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/10/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
DUP	4/10/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/23/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/30/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	2/12/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	6/17/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	9/15/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
DUP	9/15/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	12/15/2015	<0.10	--	--	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.005	<0.001	<0.001	--	<0.005	<0.003
	3/22/2016	<0.10	<0.10	<0.10	<0.0005	<0.0005	<0.0005	<0.0025	<0.0005	<0.001	<0.0005	<0.0005	--	<0.001	<0.0005	<0.0005	<0.0005	--	<0.0005	<0.0015

Please refer to notes at end of table.

Table B-2
Historical Groundwater Analytical Results – Monitoring and Irrigation Wells
Andover Colt Court Release Site
Andover, Kansas

Sample Location	Sample Date	GRO	LRH	MRH	1,2,4 Trimethylbenzene	1,2 Dichloroethane	1,3,5-Trimethylbenzene	2-Butanone	Benzene	Cyclohexane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methylcyclohexane	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	Toluene	Total Xylenes
		Concentrations in mg/L (ppm)																		
1910 N Quail Crossing	10/24/2013	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/24/2013	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	4/10/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.003
	7/24/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	10/30/2014	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	2/12/2015	<0.05	--	--	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
KDHE Tier 2 Values		**0.5**			**0.00844**	**0.005**	**0.044**	**4.92**	**0.005**	**7.02**	**0.7**	**0.45**	**NE**	**NE**	**0.00111**	**0.169**	**0.66**	**NE**	**1**	**10**

Notes:

1. GRO = Gasoline-range organics analyzed by U.S. Environmental Protection Agency (EPA) Method 8015D.
2. KDHE analyzed GRO during the March 2016 event by EPA Method 8260.
3. LRH = Low-range hydrocarbons. LRH was first analyzed during the March 2016 event by EPA Method 8015. KDHE anayzed LRH in March 2016 by EPA Method 8260.
4. MRH = Middle-range hydrocarbons. MRH was first analyzed during the March 2016 event by EPA Method 8015M.
5. Volatile organic compounds by U.S. Environmental Protection Agency (EPA) Method 8260B.
6. mg/L (ppm) = Milligrams per liter (parts per million).
7. **Bold** indicates detected concentration above the KDHE screening value.
8. < = Not detected above the method reporting limit (MRL).
9. -- = Not analyzed.
10. Duplicate = Field Duplicate Sample
11. NE = A KDHE Tier 2 Risk Based Screening Value has not been established.
12. KDHE Tier 2 Screening Values from the *Risk-Based Standards for Kansas, 5th Edition*, October 2010.
11. NS = No sample collected.
12. J = Estimated value
13. j = Relative percent difference was greater than +/-30%.

Table B-3
Separate- and Dissolved-Phase Recovery Data – 2006 N Colt Court
June 2012 through June 2013
Andover Colt Court Release Site
Andover, Kansas

Well	Date	Approximate SPH Recovered (gallons)	Total Fluids Recovered (SPH and Water)	Fluid Removal Technology
Irrigation Well - 2006 N Colt Court	6/14/2012	20	220	Mobile vacuum truck/hand bailer
	6/15/2012	20	220	Mobile vacuum truck/hand bailer
	6/28/2012	10	10	Hand bailer
	7/2/2012	10	10	Hand bailer
	7/3/2012	5	5	Hand bailer
	7/5/2012	8	8	Hand bailer
	7/5/2012	5	80	Mobile vacuum truck
	8/15/2012	15	15	Hand bailer
	8/20/2012	5	5	Hand bailer
	11/8/2012	15	15	Hand bailer
	11/15/2012	15	15	Hand bailer
	11/21/2012	15	15	Hand bailer
	11/30/2012	7	7	Hand bailer
	12/7/2012	4	8	Hand bailer
	12/14/2012	2	4	Hand bailer
	12/21/2012	2	4	Hand bailer
	12/28/2012	1.5	4	Hand bailer
	1/4/2013	1	2	Hand bailer
	1/17/2013	1.5	4	Hand bailer
	2/1/2013	2	4	Hand bailer
	2/13/2013	3	5	Hand bailer
	3/15/2013	10	11	Hand bailer
	3/20/2013	5	5	Hand bailer
	4/5/2013	8	9	Hand bailer
	4/12/2013	1	5	Hand bailer
	4/25/2013	4	6	Hand bailer
	5/10/2013	9	11	Hand bailer
	5/17/2013	4	5	Hand bailer
	5/21/2013	1	3	Hand bailer
	6/5/2013	1	3	Hand bailer
Total Fluids Recovered	--	**210**	**716**	--

Notes:

1. SPH = Separate-phase hydrocarbons.
2. The SPH volume removed using vacuum technology was calculated by measuring the SPH thicknesses in the well before and after each event and estimating the volume of SPH in the corresponding gravel pack interval.
3. The volume of SPH removed by hand bailing was measured.
4. NM = Not measured.

Table B-4
Separate- and Dissolved-Phase Recovery Data - 2006 N. Colt Court
June 2013 through December 2014
Andover Colt Court Release Site
Andover, Kansas

Date	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	Product Thickness (feet)	Minimum SPH Recovered (gallons)	Total Fluids Recovered (SPH and Water)	SPH Thickness After Removal Event	Fluid Removal Technology
6/12/2013	42.19	41.38	0.81	8.0	NM	0.00	Mobile vacuum truck and hand bailing
6/21/2013	43.73	43.40	0.33	0.8	NM	0.00	Mobile vacuum truck
6/26/2013	43.59	43.16	0.43	1.1	NM	0.00	Mobile vacuum truck
7/2/2013	49.31	49.01	0.30	0.8	NM	0.00	Mobile vacuum truck
7/12/2013	55.11	54.82	0.29	0.7	NM	0.00	Mobile vacuum truck
7/17/2013	55.10	54.88	0.22	0.5	NM	0.01	Mobile vacuum truck
8/1/2013	46.35	46.15	0.20	0.5	NM	0.01	Mobile vacuum truck
8/8/2013	41.49	–	0.00	0.0	NM	0.00	Mobile vacuum truck
8/13/2013	39.10	–	0.00	0.0	NM	0.00	Mobile vacuum truck
8/20/2013	37.40	–	0.00	0.0	NM	0.00	Mobile vacuum truck
8/28/2013	43.81	–	0.00	0.0	NM	0.0	Mobile vacuum truck
9/5/2013	47.86	–	0.00	0.0	NM	0.0	Mobile vacuum truck
9/11/2013	50.61	–	0.00	0.0	NM	0.0	Mobile vacuum truck
9/17/2013	49.06	–	0.00	0.0	NM	0.0	Mobile vacuum truck
9/23/2013	48.97	–	0.00	0.0	NM	0.0	Mobile vacuum truck
9/30/2013	48.63	–	0.00	0.0	NM	0.0	Mobile vacuum truck
10/10/2013	49.16	49.01	0.15	0.3	NM	0.0	Mobile vacuum truck
10/17/2013	48.40	–	0.00	0.0	NM	0.0	Mobile vacuum truck
10/24/2013	48.71	–	0.00	0.0	NM	0.0	Mobile vacuum truck
10/31/2013	44.86	–	0.00	0.0	NM	0.0	Mobile vacuum truck
11/6/2013	43.66	–	0.00	0.0	NM	0.0	Mobile vacuum truck
11/13/2013	41.82	–	0.00	0.0	NM	0.0	Mobile vacuum truck
11/20/2013	40.60	–	0.00	0.0	NM	0.0	Mobile vacuum truck
11/26/2013	40.30	40.19	0.11	0.3	NM	0.0	Mobile vacuum truck

Please refer to notes at end of table.

Table B-4
Separate- and Dissolved-Phase Recovery Data - 2006 N. Colt Court
June 2013 through December 2014
Andover Colt Court Release Site
Andover, Kansas

Date	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	Product Thickness (feet)	Minimum SPH Recovered (gallons)	Total Fluids Recovered (SPH and Water)	SPH Thickness After Removal Event	Fluid Removal Technology
12/3/2013	39.44	sheen	0.00	0.0	NM	0.0	Mobile vacuum truck
12/11/2013	39.63	sheen	0.00	0.0	NM	0.0	Mobile vacuum truck
12/19/2013	39.23	–	0.00	0.0	NM	0.0	Mobile vacuum truck
12/27/2013	39.38	39.34	0.04	0.1	NM	0.0	Mobile vacuum truck
1/3/2014	NM	NM	NM	–	50.0	NM	Mobile vacuum truck
1/10/2014	39.89	–	0.00	0.0	50.0	0.0	Mobile vacuum truck
1/16/2014	39.83	–	0.00	0.0	50.0	0.0	Mobile vacuum truck
1/21/2014	39.34	–	0.00	0.0	75.0	0.0	Mobile vacuum truck
1/30/2014	38.85	–	0.00	0.0	50.0	0.0	Mobile vacuum truck
2/12/2014	39.44	39.43	0.01	0.0	100.0	0.0	Mobile vacuum truck
2/19/2014	39.37	39.36	0.01	0.0	75.0	0.0	Mobile vacuum truck
2/26/2014	39.64	39.60	0.04	0.1	100.0	0.0	Mobile vacuum truck
3/4/2014	39.76	39.73	0.03	0.1	75.0	0.0	Mobile vacuum truck
3/13/2014	39.89	39.86	0.03	0.1	100.0	0.0	Mobile vacuum truck
3/18/2014	39.65	39.61	0.04	0.1	50.0	0.0	Mobile vacuum truck
3/27/2014	39.73	39.69	0.04	0.1	100.0	0.0	Mobile vacuum truck
4/3/2014	40.46	40.42	0.04	0.1	50.0	0.0	Mobile vacuum truck
4/8/2014	41.14	41.11	0.03	0.1	50.0	0.0	Mobile vacuum truck
4/9/2014	41.47	41.43	0.04	0.1	50.0	0.0	Mobile vacuum truck
4/10/2014	41.82	41.76	0.06	0.2	50.0	0.0	Mobile vacuum truck
4/11/2014	43.25	43.21	0.04	0.1	50.0	0.0	Mobile vacuum truck
4/17/2014	43.17	43.13	0.04	0.1	25.0	0.0	Mobile vacuum truck
4/22/2014	44.95	44.90	0.05	0.1	25.0	0.0	Mobile vacuum truck
4/29/2014	46.43	46.36	0.07	0.2	25.0	0.0	Mobile vacuum truck

Please refer to notes at end of table.

Table B-4
Separate- and Dissolved-Phase Recovery Data - 2006 N. Colt Court
June 2013 through December 2014
Andover Colt Court Release Site
Andover, Kansas

Date	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	Product Thickness (feet)	Minimum SPH Recovered (gallons)	Total Fluids Recovered (SPH and Water)	SPH Thickness After Removal Event	Fluid Removal Technology
5/8/2014	51.28	51.15	0.13	0.3	25.0	0.0	Mobile vacuum truck
5/13/2014	51.83	51.66	0.17	0.4	50.0	0.0	Mobile vacuum truck
5/20/2014	54.12	53.94	0.18	0.4	25.0	0.0	Mobile vacuum truck
5/21/2014	55.28	55.11	0.17	0.4	25.0	0.0	Mobile vacuum truck
5/29/2014	52.24	52.06	0.18	0.4	0.0	0.0	Mobile vacuum truck
5/30/2014	53.32	53.13	0.19	0.5	0.0	0.0	Mobile vacuum truck
6/2/2014	52.65	52.50	0.15	0.4	75.0	0.0	Mobile vacuum truck
6/3/2014	52.63	52.49	0.14	0.4	25.0	0.0	Mobile vacuum truck
6/10/2014	48.48	48.31	0.17	0.4	50.0	0.0	Mobile vacuum truck
6/11/2014	49.10	48.95	0.15	0.4	25.0	0.0	Mobile vacuum truck
6/18/2014	46.34	46.20	0.14	0.4	25.0	0.0	Mobile vacuum truck
6/19/2014	47.60	47.43	0.17	0.4	0.0	0.0	Mobile vacuum truck
6/24/2014	47.80	47.67	0.13	0.3	25.0	0.0	Mobile vacuum truck
6/25/2014	46.94	46.81	0.13	0.3	25.0	0.0	Mobile vacuum truck
7/1/2014	44.64	44.50	0.14	0.3	0.0	0.0	Mobile vacuum truck
7/2/2014	44.78	44.64	0.14	0.4	0.0	0.0	Mobile vacuum truck
7/10/2014	46.12	46.03	0.09	0.2	10.0	0.0	Mobile vacuum truck
7/11/2014	47.02	46.91	0.11	0.3	0.0	0.0	Mobile vacuum truck
7/15/2014	46.41	46.33	0.08	0.1	50.0	0.0	Mobile vacuum truck
7/16/2014	47.55	47.41	0.14	0.3	50.0	0.0	Mobile vacuum truck
7/22/2014	48.32	48.21	0.11	0.3	25.0	0.0	Mobile vacuum truck
7/23/2014	49.38	49.27	0.11	0.3	25.0	0.0	Mobile vacuum truck
7/31/2014	49.18	49.06	0.12	0.3	25.0	0.0	Mobile vacuum truck

Please refer to notes at end of table.

Table B-4
Separate- and Dissolved-Phase Recovery Data - 2006 N. Colt Court
June 2013 through December 2014
Andover Colt Court Release Site
Andover, Kansas

Date	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	Product Thickness (feet)	Minimum SPH Recovered (gallons)	Total Fluids Recovered (SPH and Water)	SPH Thickness After Removal Event	Fluid Removal Technology
8/1/2014	51.04	--	0.00	0.0	25.0	0.0	Mobile vacuum truck
8/5/2014	52.05	51.92	0.13	0.1	25.0	0.1	Mobile vacuum truck
8/6/2014	52.92	52.79	0.13	0.3	25.0	sheen	Mobile vacuum truck
8/14/2015	52.94	52.79	0.15	0.2	25.0	0.1	Mobile vacuum truck
8/15/2014	51.40	51.31	0.09	0.2	25.0	0.0	Mobile vacuum truck
8/20/2014	54.23	54.09	0.14	0.3	25.0	0.0	Mobile vacuum truck
8/21/2014	55.02	54.98	0.04	0.1	0.0	0.0	Mobile vacuum truck
8/26/2014	58.27	58.20	0.07	0.1	25.0	0.0	Mobile vacuum truck
8/27/2014	58.57	58.39	0.18	0.4	25.0	0.0	Mobile vacuum truck
9/3/2014	57.48	57.29	0.19	0.4	25.0	0.0	Mobile vacuum truck
9/4/2014	58.28	58.22	0.06	0.2	25.0	0.0	Mobile vacuum truck
9/10/2014	58.12	57.94	0.18	0.4	0.0	0.0	Mobile vacuum truck
9/11/2014	59.15	58.96	0.19	0.4	0.0	0.0	Mobile vacuum truck
9/16/2014	58.14	57.98	0.16	0.4	0.0	0.0	Mobile vacuum truck
9/17/2014	58.95	58.75	0.20	0.5	25.0	0.0	Mobile vacuum truck
9/24/2014	59.17	58.95	0.22	0.5	0.0	sheen	Mobile vacuum truck
9/25/2014	60.58	60.35	0.23	0.6	0.0	0.0	Mobile vacuum truck
10/1/2014	60.51	60.30	0.21	0.4	25.0	0.1	Mobile vacuum truck
10/2/2014	60.53	60.47	0.06	0.2	25.0	0.0	Mobile vacuum truck
10/8/2014 (a.m.)	60.39	60.18	0.21	0.3	25.0	0.1	Mobile vacuum truck
10/8/2014 (p.m.)	60.24	60.12	0.12	0.2	25.0	0.1	Mobile vacuum truck
10/17/2014	--	--	--	--	25.0	--	Mobile vacuum truck

Please refer to notes at end of table.

Table B-4
Separate- and Dissolved-Phase Recovery Data - 2006 N. Colt Court
June 2013 through December 2014
Andover Colt Court Release Site
Andover, Kansas

Date	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	Product Thickness (feet)	Minimum SPH Recovered (gallons)	Total Fluids Recovered (SPH and Water)	SPH Thickness After Removal Event	Fluid Removal Technology
10/18/2014	56.69	56.56	0.13	0.3	25.0	0.0	Mobile vacuum truck
10/21/2014	56.52	56.35	0.17	0.2	25.0	0.1	Mobile vacuum truck
10/22/2014	56.62	56.43	0.19	0.3	25.0	0.1	Mobile vacuum truck
10/30/2014	56.75	56.43	0.32	0.5	25.0	0.1	Mobile vacuum truck
11/4/2014	56.21	56.09	0.12	0.1	25.0	0.1	Mobile vacuum truck
11/11/2014	54.45	54.35	0.10	0.2	25.0	0.0	Mobile vacuum truck
11/18/2014	53.11	53.00	0.11	0.3	25.0	0.0	Mobile vacuum truck
11/25/2014	50.35	50.23	0.12	0.3	25.0	0.0	Mobile vacuum truck
12/3/2014	49.23	49.12	0.11	0.2	50.0	0.0	Mobile vacuum truck
12/3/2014	49.23	49.12	0.11	0.2	50.0	0.01	Mobile vacuum truck
12/9/2014	48.71	48.61	0.10	0.2	50.0	0.03	Mobile vacuum truck
12/17/2014	47.93	47.88	0.05	0.1	25.0	0.01	Mobile vacuum truck
12/23/2014	47.13	47.06	0.07	0.2	25.0	0.00	Mobile vacuum truck
12/31/2014	47.03	46.98	0.05	0.1	50.0	0.00	Mobile vacuum truck
1/7/2015	46.87	46.78	0.09	0.2	50.0	0.01	Mobile vacuum truck
1/14/2015	46.32	46.29	0.03	0.0	0.0	0.03	None
1/20/2015	46.27	–	0.00	0.0	0.0	0.00	None
1/28/2015	47.34	47.27	0.07	0.0	0.0	0.07	None
2/4/2015	45.92	45.84	0.08	0.0	0.0	0.08	None
2/9/2015	45.59	45.55	0.04	0.1	50.0	0.01	Mobile vacuum truck
3/18/2015	45.55	–	0.00	0.3	0.3	0.00	SPH Skimmer
4/20/2015	44.49	–	0.00	0.0	0.0	0.00	SPH Skimmer

Please refer to notes at end of table.

Table B-4
Separate- and Dissolved-Phase Recovery Data - 2006 N. Colt Court
June 2013 through December 2014
Andover Colt Court Release Site
Andover, Kansas

Date	Depth to Groundwater (feet bgs)	Depth to SPH (feet)	Product Thickness (feet)	Minimum SPH Recovered (gallons)	Total Fluids Recovered (SPH and Water)	SPH Thickness After Removal Event	Fluid Removal Technology
5/22/2015	45.13	–	–	0.0	0.0	0.00	SPH Skimmer
6/10/2015	45.43	–	0.00	0.0	0.0	0.00	SPH Skimmer
6/16/2015	42.38	–	0.00	0.0	0.0	0.00	SPH Skimmer
7/22/2015	47.66	–	–	0.0	0.0	0.00	SPH Skimmer
8/20/2015	46.98	–	–	0.0	0.0	0.00	SPH Skimmer
9/14/2015	49.56	–	–	0.0	0.0	0.00	SPH Skimmer
10/20/2015	47.56	–	–	0.0	0.0	0.00	SPH Skimmer
11/24/2015	48.66	–	–	0.0	0.0	0.00	SPH Skimmer
12/14/2015	46.98	–	–	0.0	0.0	0.00	SPH Skimmer
1/13/2016	37.27	–	–	0.0	0.0	0.00	SPH Skimmer
2/16/2016	36.89	–	–	0.0	0.0	0.00	SPH Skimmer
3/21/2016	37.03	–	–	0.0	0.0	0.00	SPH Skimmer
			Total Fluids Recovered	**32**	**2710**		

Notes:

1. SPH = Separate-phase hydrocarbons.
2. The SPH volume removed using vacuum technology was calculated by measuring the SPH thicknesses in the well before and after each event and estimating the volume of SPH in the corresponding gravel pack interval.
3. NM = Not measured.
4. – = No SPH.

Appendix C

Laboratory Analytical Report and QA/QC Report

Appendix C — Laboratory Analytical Reports and Quality Assurance/Quality Control Results Summary

1.0 Introduction

This appendix documents the results of a quality assurance (QA) review of the analytical data for groundwater samples that were collected during groundwater monitoring activities that were performed in March 2016 at the Quail Crossing neighborhood (the Neighborhood) in Andover, Kansas (Site).

The data reviewed herein include are representative of: (1) groundwater samples collected from monitoring/pilot test wells; and (2) groundwater samples collected from Neighborhood irrigation wells. The groundwater samples collected were analyzed by ESC Lab Sciences of Mount Juliet, Tennessee.

The QA review outlines the applicable quality control criteria utilized during the data review process, as well as any deviations from those criteria. Examination and validation of the laboratory summary reports include:

- Analytical methods;
- Reporting limits;
- Detection limits and estimated concentrations;
- Sample holding times;
- Custody records and sample receipt;
- Spikes, blanks, and surrogates; and
- Duplicates.

The QA review did not include a review of calibration or raw data. Section 2.0 lists the analytical methods used in sample analysis. Section 3.0 defines the QA terms used in this report. Section 4.0 provides the QA results for each sampling event.

2.0 Analytical Methods

2.1 Groundwater Analyses

Chemical analyses performed on groundwater samples consisted of the following:

- Low-range hydrocarbons (LRH) by Method 8015
- Mid-range hydrocarbons (MRH) by Method 8015D
- Volatile petroleum hydrocarbons as gasoline (GRO) by 8015D/GRO; and
- 1,2,4-Trimethylbenzene, 1,2-dichloroethane, 1,3,5-trimethylbenzene, 2-butanone, cyclohexane, isowpropylbenzene methylcyclohexane BTEX (benzene, toluene, ethylbenzene, total xylenes),

naphthalene, n-butylbenzene, n-propylbenzene by U.S. Environmental Protection Agency (EPA) Method SW846 8260B.

3.0 Quality Assurance Objectives and Review Procedures

The general QA objectives for this project were to develop and implement procedures for obtaining, evaluating, and confirming the usability of environmental data of a specified quality. To collect such information, analytical data must have an appropriate degree of accuracy and reproducibility, samples collected must be representative of actual field conditions, and samples must be collected and analyzed using unbroken chain-of-custody (COC) procedures.

Reporting limits and analytical results were compared to action levels for each parameter. Precision, accuracy, representativeness, completeness, and comparability parameters used to indicate data quality are defined below.

Reporting Limits. Method reporting limits (MRLs) are set by the laboratory and are based on instrumentation abilities, sample matrix, and suggested MRLs by the EPA or KDHE. In some cases, the MRLs are raised due to high concentrations of analytes in the samples or matrix interferences. MRLs are generally consistent with industry standards and below promulgated regulatory standards when possible.

Detection Limits and Estimated Concentrations. The method detection limit (MDL) is the lowest quantity of a substance that can be distinguished from the absence of that substance within a stated confidence limit. The MDL is estimated from the mean of the blank, the standard deviation of the blank and some confidence factor.

Holding Times. Holding times are the length of time a sample can be stored after collection and prior to analysis without significantly affecting the analytical results. Holding times vary by analyte, sample matrix, and analytical methodology.

Custody Records and Sample Receipt. COC refers to the document or paper trail showing the collection, custody, control, transfer, analysis, and disposition of physical materials. The sample receipt identifies the condition of samples upon arrival at the analytical laboratory.

Method Blanks. A method, or laboratory, blank is a sample prepared in the laboratory along with the field samples and analyzed for the same parameters at the same time. It is used to assess for laboratory introduced contamination.

Laboratory Control Sample. A laboratory control sample (LCS) is analyzed by the laboratory to assess the accuracy of the analytical equipment. The sample is prepared from an analyte-free matrix that is then spiked with known levels of the constituents of interest (i.e., a standard). The concentrations are measured and the results compared to the known spiked levels. This comparison is expressed as percent recovery.

Laboratory Control Sample Duplicate. A laboratory control sample duplicate [LCSD]) is prepared and analyzed along with the LCS. The LCS and LCSD data are compared to assess the precision of the analytical method (i.e., the relative percent difference [RPD]).

Matrix Spike Analyses. Matrix spike (MS) analyses are performed on samples submitted to the laboratory that are of the same matrix as the field sample. The MS sample is spiked with known levels of the constituents of interest and analyzed to assess the potential for matrix interference with recovery or detection of the constituents of interest and the accuracy of the determination. The spiked sample results are compared to the expected result (i.e., sample concentration plus spike amount) and reported as percent recovery.

Lab Duplicate. A laboratory duplicate is a second analysis of a QA/QC sample, which serves as an internal check on laboratory quality as well as potential variability of the sample matrix. The laboratory duplicate is analyzed and compared to the primary sample results to assess the precision of the analytical method. This comparison can be expressed by the RPD between the primary and duplicate samples.

Surrogate Recovery. Surrogates are organic compounds that are similar in chemical composition to the analytes of interest and spiked into environmental and batch QC samples prior to sample preparation and analysis. Surrogate recoveries for environmental samples are used to evaluate matrix interference on a sample-specific basis.

Field Duplicate. A field duplicate is a second field sample collected from a sampling location (e.g.., a well or soil core). Field duplicate samples serve as a check on laboratory quality as well as potential variability of the sample matrix. The field duplicate is analyzed and compared to the primary sample to assess the precision of the analytical method. This comparison can be expressed by the RPD between the original and duplicate samples.

Trip Blanks. A trip blank is a sample prepared in the laboratory that is shipped along with the sample bottles to the field, kept with the soil and groundwater samples during collection, and shipped back to the laboratory with the field samples. The trip blank is analyzed for constituents of interest, along with the primary samples, to assess if detected contaminants may have been the result of contamination of the samples during transport or storage.

Equipment Blank. An equipment blank is a sample collected in the field along with the primary samples and analyzed for the same parameters. Equipment blanks are collected by pouring deionized water over or through decontaminated equipment used to collect the samples, into laboratory supplied containers. The equipment blank is used to assess if field samples may have been affected by inadequate decontamination of field equipment.

4.0 QA/QC Review Results

4.1 Groundwater Lab Report L825714

The data reviewed includes groundwater samples collected from monitoring wells March 21 through 23, 2016. Samples were analyzed for LRH, MRH, GRO and volatile organic compounds (VOCs) using the methods listed in Section 2.1.

Reporting Limits. MRLs were not elevated for samples. No data are flagged.

Detection Limits and Estimated Concentrations. MDLs and concentrations were not reported as estimates.

Holding Times. The samples were analyzed within applicable holding times.

Custody Records and Sample Receipt. The samples were received below the required temperature of 4°C and consistent with the accompanying COC.

Method Blanks. No compounds were detected in the method blanks. No data are flagged.

Laboratory Control Sample. Percent recoveries of the LCS were within control limits.

Laboratory Control Sample Duplicate. Percent recoveries of the LCSD were within control limits. LCS/LCSD RPDs were within control limits for reported constituents.

Matrix Spike Analyses. The RPD for the MS and MS duplicate (MSD) were within control limits.

Lab Duplicate. No lab duplicate was analyzed.

Surrogate Recovery. Surrogate recoveries were within control limits for samples.

Field Duplicate. Field duplicate samples were collected from wells MW-5 and MW-9.

- In MW-5, the following analytes exceeded RPD limits: 1,2,4 trimethylbenzene; 1,3,5 trimethylbenzene; benzene; ethylbenzene; n-propylbenzene; and toluene. Accordingly, those data are flagged to indicate that the constituent concentrations are estimated. Where applicable, report figures present the higher estimated concentration. Other constituents were with the RPD limits.
- Constituents were not detected in the primary and duplicate samples collected from well MW-9.

Trip Blank. One trip blank was analyzed; no compounds were detected in the sample. No data are flagged.

Equipment Blank. No reusable equipment was utilized during this sampling event; therefore, an equipment blank was not collected.

Conclusion. In conclusion, the overall QA objectives have been met and the data are of adequate quality for use in this project.

4.2 Groundwater Lab Report L825658

The data reviewed includes groundwater samples collected from irrigation wells on March 21 and 22, 2016. Samples were analyzed for LRH, MRH, GRO and volatile organic compounds (VOCs) using the methods listed in Section 2.1.

Reporting Limits. MRLs were not elevated for samples. No data are flagged.

Detection Limits and Estimated Concentrations. MDLs and concentrations were not reported as estimates.

Holding Times. The samples were analyzed within applicable holding times.

Custody Records and Sample Receipt. The samples were received below the required temperature of 4°C and consistent with the accompanying COC.

Method Blanks. No compounds were detected in the method blanks. No data are flagged.

Laboratory Control Sample. Percent recoveries of the LCS were within control limits.

Laboratory Control Sample Duplicate. Percent recoveries of the LCSD were within control limits. LCS/LCSD RPDs were within control limits for reported constituents.

Matrix Spike Analyses. MS/MSD recoveries were within lab control limits.

Lab Duplicate. No lab duplicate was analyzed.

Surrogate Recovery. Surrogate recoveries were within control limits for samples.

Field Duplicates. Field duplicates were collected from the irrigation wells at 2019 N Ruger Circle and 2001 N Colt Court.

- Constituents were not detected in the primary and duplicate samples collected from 2019 N Ruger Circle.
- In the samples collected from 2001 N Colt Court, the following analytes exceeded RPD limits: 1,2,4 trimethylbenzene; benzene; cyclohexane; ethylbenzene; and xylenes. Those constituents were detected at trace concentrations in the duplicate sample; however, they were not detected in the primary sample. Accordingly, those data are flagged to indicate that the constituent concentrations are estimated. Where applicable, report figures present the higher estimated concentration. Other constituents were with the RPD limits.

Trip Blank. One trip blank was analyzed; no compounds were detected in the trip blank. No data are flagged.

Equipment Blank. No reusable equipment was utilized during this sampling event; therefore, an equipment blank was not collected.

Conclusion. In conclusion, the overall QA objectives have been met and the data are of adequate quality for use in this project.

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ANALYTICAL REPORT

April 07, 2016

myESC
REAL TIME DATA ACCESS

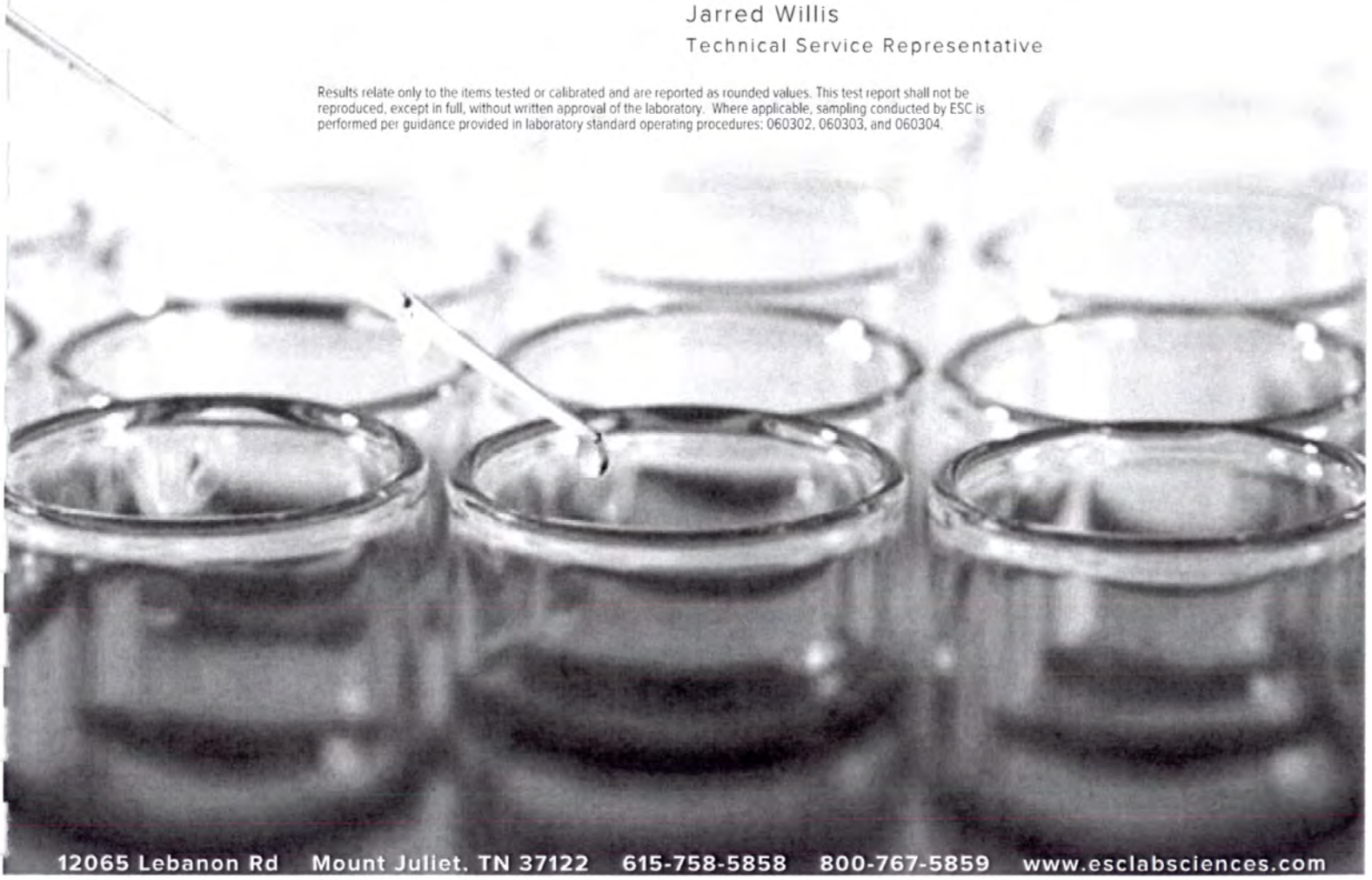
Apex Companies, LLC- Portland, OR

Sample Delivery Group:	L825658
Samples Received:	03/25/2016
Project Number:	E3CE-0065
Description:	Andover Release Site - 4Q2015 Quail Crossing GWM□□
Site:	ANDOVER QUAIL CROSSING
Report To:	Samuel Jackson 3015 SW First Avenue Portland, OR 97201-4707

Entire Report Reviewed By: Jarred Willis

Jarred Willis
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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Cp
Tc
Ss
Cn
Sr
Qc
Gl
Al
Sc

2001 N COLT CT L825658-01 GW

Collected by	Collected date/time	Received date/time
	03/21/16 12:15	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859946	1	03/31/16 15:23	04/01/16 18:18	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860029	1	03/28/16 21:12	03/28/16 21:12	DAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860410	1	04/03/16 03:12	04/03/16 03:12	JAH
Volatile Petroleum Hydrocarbons by Method 8015	WG859661	1	03/30/16 06:54	03/30/16 06:54	JAH

2002 N COLT CT L825658-02 GW

Collected by	Collected date/time	Received date/time
	03/22/16 11:45	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859946	1	03/31/16 15:23	04/01/16 18:43	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860029	1	03/28/16 21:36	03/28/16 21:36	DAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860410	1	04/03/16 03:32	04/03/16 03:32	JAH
Volatile Petroleum Hydrocarbons by Method 8015	WG859661	1	03/30/16 06:11	03/30/16 06:11	JAH

2004 N COLT CT L825658-03 GW

Collected by	Collected date/time	Received date/time
	03/21/16 12:40	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859946	1	03/31/16 15:23	04/01/16 19:08	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860029	1	03/28/16 22:01	03/28/16 22:01	DAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860410	1	04/03/16 03:53	04/03/16 03:53	JAH
Volatile Petroleum Hydrocarbons by Method 8015	WG859661	1	03/30/16 05:27	03/30/16 05:27	JAH

2005 N COLT CT L825658-04 GW

Collected by	Collected date/time	Received date/time
	03/21/16 11:55	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859946	1	03/31/16 15:23	04/01/16 19:33	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860029	1	03/28/16 22:26	03/28/16 22:26	DAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860410	20	04/03/16 04:13	04/03/16 04:13	JAH
Volatile Petroleum Hydrocarbons by Method 8015	WG859661	1	03/30/16 04:43	03/30/16 04:43	JAH

2006 N COLT CT L825658-05 GW

Collected by	Collected date/time	Received date/time
	03/22/16 12:10	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859946	1	03/31/16 15:23	04/01/16 19:58	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860029	10	03/28/16 22:50	03/28/16 22:50	DAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860410	25	04/03/16 04:34	04/03/16 04:34	JAH
Volatile Petroleum Hydrocarbons by Method 8015	WG859661	1	03/30/16 03:59	03/30/16 03:59	JAH

HOA-1 L825658-06 GW

Collected by	Collected date/time	Received date/time
	03/22/16 15:50	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859946	1	03/31/16 15:23	04/01/16 20:22	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860029	1	03/28/16 23:15	03/28/16 23:15	DAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860410	1	04/03/16 04:54	04/03/16 04:54	JAH
Volatile Petroleum Hydrocarbons by Method 8015	WG859661	1	03/30/16 03:14	03/30/16 03:14	JAH

2007 N COLT CT L825658-07 GW

Collected by	Collected date/time	Received date/time
	03/22/16 11:30	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859946	1	03/31/16 15:23	04/01/16 20:47	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860029	1	03/28/16 23:40	03/28/16 23:40	DAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860410	1	04/03/16 05:14	04/03/16 05:14	JAH
Volatile Petroleum Hydrocarbons by Method 8015	WG859661	1	03/30/16 02:31	03/30/16 02:31	JAH

2019 N RUGER CIR L825658-08 GW

Collected by	Collected date/time	Received date/time
	03/22/16 12:45	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859946	1	03/31/16 15:23	04/01/16 21:12	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860029	1	03/29/16 00:04	03/29/16 00:04	DAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860410	1	04/03/16 05:35	04/03/16 05:35	JAH
Volatile Petroleum Hydrocarbons by Method 8015	WG859661	1	03/30/16 01:47	03/30/16 01:47	JAH

2020 N RUGER CIR L825658-09 GW

Collected by	Collected date/time	Received date/time
	03/22/16 13:00	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859946	1	03/31/16 15:23	04/01/16 21:37	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860029	1	03/29/16 00:29	03/29/16 00:29	DAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860410	1	04/03/16 05:55	04/03/16 05:55	JAH
Volatile Petroleum Hydrocarbons by Method 8015	WG859661	1	03/30/16 01:03	03/30/16 01:03	JAH

2028 N RUGER CIR L825658-10 GW

Collected by	Collected date/time	Received date/time
	03/22/16 13:15	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859946	1	03/31/16 15:23	04/01/16 22:02	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860029	1	03/29/16 00:54	03/29/16 00:54	DAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860410	1	04/03/16 06:15	04/03/16 06:15	JAH
Volatile Petroleum Hydrocarbons by Method 8015	WG859661	1	03/30/16 00:19	03/30/16 00:19	JAH

2032 N RUGER CIR L825658-11 GW

Collected by	Collected date/time	Received date/time
	03/22/16 13:25	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859946	1	03/31/16 15:23	04/01/16 22:26	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860029	1	03/29/16 01:19	03/29/16 01:19	DAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860410	1	04/03/16 06:35	04/03/16 06:35	JAH
Volatile Petroleum Hydrocarbons by Method 8015	WG859661	1	03/29/16 23:34	03/29/16 23:34	JAH

2021 N RUGER CIR L825658-12 GW

Collected by	Collected date/time	Received date/time
	03/22/16 13:40	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859946	1	03/31/16 15:23	04/01/16 22:51	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860029	1	03/29/16 01:43	03/29/16 01:43	DAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860410	1	04/03/16 06:56	04/03/16 06:56	JAH
Volatile Petroleum Hydrocarbons by Method 8015	WG859661	1	03/29/16 22:50	03/29/16 22:50	JAH

Cp
Tc
Ss
Cn
Sr
Qc
Gl
Al
Sc

2025 N RUGER CIR L825658-13 GW

Collected by	Collected date/time	Received date/time
	03/22/16 13:50	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859946	1	03/31/16 15:23	04/01/16 23:16	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860029	1	03/29/16 02:08	03/29/16 02:08	DAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860410	1	04/03/16 07:16	04/03/16 07:16	JAH
Volatile Petroleum Hydrocarbons by Method 8015	WG859661	1	03/29/16 22:06	03/29/16 22:06	JAH

1009 W MOUNTAIN L825658-14 GW

Collected by	Collected date/time	Received date/time
	03/22/16 16:20	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG861588	1	04/04/16 15:31	04/04/16 22:19	TRF
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860029	1	03/29/16 02:33	03/29/16 02:33	DAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860410	1	04/03/16 07:36	04/03/16 07:36	JAH
Volatile Petroleum Hydrocarbons by Method 8015	WG859661	1	03/29/16 21:23	03/29/16 21:23	JAH

2007 N MOUNTAIN CT L825658-15 GW

Collected by	Collected date/time	Received date/time
	03/22/16 08:45	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859946	1	03/31/16 15:23	04/02/16 00:06	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860029	1	03/29/16 02:57	03/29/16 02:57	DAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860410	1	04/03/16 07:57	04/03/16 07:57	JAH
Volatile Petroleum Hydrocarbons by Method 8015	WG859661	1	03/29/16 20:39	03/29/16 20:39	JAH

2009 N MOUNTAIN CT L825658-16 GW

Collected by	Collected date/time	Received date/time
	03/22/16 09:05	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859946	1	03/31/16 15:23	04/02/16 00:30	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860029	1	03/29/16 03:22	03/29/16 03:22	DAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860410	1	04/03/16 08:17	04/03/16 08:17	JAH
Volatile Petroleum Hydrocarbons by Method 8015	WG859661	1	03/29/16 19:56	03/29/16 19:56	JAH

1211 W QUAIL CROSSING CT L825658-17 GW

Collected by	Collected date/time	Received date/time
	03/21/16 16:05	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859946	1	03/31/16 15:23	04/02/16 00:55	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860029	1	03/29/16 03:47	03/29/16 03:47	DAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860410	1	04/03/16 08:38	04/03/16 08:38	JAH
Volatile Petroleum Hydrocarbons by Method 8015	WG859661	1	03/29/16 19:12	03/29/16 19:12	JAH

TRIP BLANK L825658-18 GW

Collected by	Collected date/time	Received date/time
	03/21/16 00:00	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG862038	1	04/05/16 14:53	04/05/16 14:53	JAH

DUP-3 L825658-19 GW

Collected by	Collected date/time	Received date/time
	03/21/16 00:00	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859946	1	03/31/16 15:23	04/02/16 01:20	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860029	1	03/29/16 04:11	03/29/16 04:11	DAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860410	1	04/03/16 08:58	04/03/16 08:58	JAH
Volatile Petroleum Hydrocarbons by Method 8015	WG859661	1	03/29/16 18:28	03/29/16 18:28	JAH

DUP-2 L825658-20 GW

Collected by	Collected date/time	Received date/time
	03/21/16 00:00	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859946	1	03/31/16 15:23	04/02/16 01:45	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860029	1	03/29/16 04:36	03/29/16 04:36	DAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860410	1	04/03/16 02:52	04/03/16 02:52	JAH
Volatile Petroleum Hydrocarbons by Method 8015	WG859661	1	03/29/16 17:45	03/29/16 17:45	JAH

Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jarred Willis

Jarred Willis
Technical Service Representative

Sample Handling and Receiving

The following samples were prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.

ESC Sample ID	Project Sample ID	Method
L825658-18	TRIP BLANK	8260B

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	ND		0.100	1	03/30/2016 06:54	WG859661
(S) 2,5-Dibromotoluene(FID)	*76.4*		*70.0-130*		*03/30/2016 06:54*	WG859661
(S) 2,5-Dibromotoluene(PID)	*80.6*		*70.0-130*		*03/30/2016 06:54*	WG859661

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	03/28/2016 21:12	WG860029
(S) α,α,α-Trifluorotoluene(FID)	*89.0*		*62.0-128*		*03/28/2016 21:12*	WG860029

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	04/03/2016 03:12	WG860410
Toluene	ND		0.000500	1	04/03/2016 03:12	WG860410
Ethylbenzene	ND		0.000500	1	04/03/2016 03:12	WG860410
Xylenes, Total	ND		0.00150	1	04/03/2016 03:12	WG860410
Methyl tert-butyl ether	ND		0.000500	1	04/03/2016 03:12	WG860410
Naphthalene	ND		0.000500	1	04/03/2016 03:12	WG860410
1,2-Dichloroethane	ND		0.000500	1	04/03/2016 03:12	WG860410
1,2,4-Trimethylbenzene	ND		0.000500	1	04/03/2016 03:12	WG860410
1,3,5-Trimethylbenzene	ND		0.000500	1	04/03/2016 03:12	WG860410
n-Butylbenzene	ND		0.000500	1	04/03/2016 03:12	WG860410
n-Propylbenzene	ND		0.000500	1	04/03/2016 03:12	WG860410
Isopropylbenzene	ND		0.000500	1	04/03/2016 03:12	WG860410
2-Butanone (MEK)	ND		0.00250	1	04/03/2016 03:12	WG860410
Cyclohexane	ND		0.00100	1	04/03/2016 03:12	WG860410
Methyl Cyclohexane	ND		0.00100	1	04/03/2016 03:12	WG860410
(S) Toluene-d8	*93.3*		*90.0-115*		*04/03/2016 03:12*	WG860410
(S) Dibromofluoromethane	*96.4*		*79.0-121*		*04/03/2016 03:12*	WG860410
(S) 4-Bromofluorobenzene	*101*		*80.1-120*		*04/03/2016 03:12*	WG860410

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	ND		0.100	1	04/01/2016 18:18	WG859946
(S) 1-Chloro-octadecane	*57.8*		*40.0-140*		*04/01/2016 18:18*	WG859946

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	ND		0.100	1	03/30/2016 06:11	WG859661
(S) 2,5-Dibromotoluene(FID)	*75.5*		*70.0-130*		*03/30/2016 06:11*	WG859661
(S) 2,5-Dibromotoluene(PID)	*79.9*		*70.0-130*		*03/30/2016 06:11*	WG859661

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	03/28/2016 21:36	WG860029
(S) a,a,a-Trifluorotoluene(FID)	*89.5*		*62.0-128*		*03/28/2016 21:36*	WG860029

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	04/03/2016 03:32	WG860410
Toluene	ND		0.000500	1	04/03/2016 03:32	WG860410
Ethylbenzene	ND		0.000500	1	04/03/2016 03:32	WG860410
Xylenes, Total	ND		0.00150	1	04/03/2016 03:32	WG860410
Methyl tert-butyl ether	ND		0.000500	1	04/03/2016 03:32	WG860410
Naphthalene	ND		0.000500	1	04/03/2016 03:32	WG860410
1,2-Dichloroethane	ND		0.000500	1	04/03/2016 03:32	WG860410
1,2,4-Trimethylbenzene	ND		0.000500	1	04/03/2016 03:32	WG860410
1,3,5-Trimethylbenzene	ND		0.000500	1	04/03/2016 03:32	WG860410
n-Butylbenzene	ND		0.000500	1	04/03/2016 03:32	WG860410
n-Propylbenzene	ND		0.000500	1	04/03/2016 03:32	WG860410
Isopropylbenzene	ND		0.000500	1	04/03/2016 03:32	WG860410
2-Butanone (MEK)	ND		0.00250	1	04/03/2016 03:32	WG860410
Cyclohexane	ND		0.00100	1	04/03/2016 03:32	WG860410
Methyl Cyclohexane	ND		0.00100	1	04/03/2016 03:32	WG860410
(S) Toluene-d8	*93.4*		*90.0-115*		*04/03/2016 03:32*	WG860410
(S) Dibromofluoromethane	*96.9*		*79.0-121*		*04/03/2016 03:32*	WG860410
(S) 4-Bromofluorobenzene	*102*		*80.1-120*		*04/03/2016 03:32*	WG860410

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	ND		0.100	1	04/01/2016 18:43	WG859946
(S) 1-Chloro-octadecane	*55.6*		*40.0-140*		*04/01/2016 18:43*	WG859946

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	ND		0.100	1	03/30/2016 05:27	WG859661
(S) 2,5-Dibromotoluene(FID)	*77.4*		*70.0-130*		*03/30/2016 05:27*	WG859661
(S) 2,5-Dibromotoluene(PID)	*81.5*		*70.0-130*		*03/30/2016 05:27*	WG859661

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	03/28/2016 22:01	WG860029
(S) a,a,a-Trifluorotoluene(FID)	*91.6*		*62.0-128*		*03/28/2016 22:01*	WG860029

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	04/03/2016 03:53	WG860410
Toluene	ND		0.000500	1	04/03/2016 03:53	WG860410
Ethylbenzene	ND		0.000500	1	04/03/2016 03:53	WG860410
Xylenes, Total	ND		0.00150	1	04/03/2016 03:53	WG860410
Methyl tert-butyl ether	ND		0.000500	1	04/03/2016 03:53	WG860410
Naphthalene	ND		0.000500	1	04/03/2016 03:53	WG860410
1,2-Dichloroethane	ND		0.000500	1	04/03/2016 03:53	WG860410
1,2,4-Trimethylbenzene	ND		0.000500	1	04/03/2016 03:53	WG860410
1,3,5-Trimethylbenzene	ND		0.000500	1	04/03/2016 03:53	WG860410
n-Butylbenzene	ND		0.000500	1	04/03/2016 03:53	WG860410
n-Propylbenzene	ND		0.000500	1	04/03/2016 03:53	WG860410
Isopropylbenzene	ND		0.000500	1	04/03/2016 03:53	WG860410
2-Butanone (MEK)	ND		0.00250	1	04/03/2016 03:53	WG860410
Cyclohexane	ND		0.00100	1	04/03/2016 03:53	WG860410
Methyl Cyclohexane	ND		0.00100	1	04/03/2016 03:53	WG860410
(S) Toluene-d8	*93.4*		*90.0-115*		*04/03/2016 03:53*	WG860410
(S) Dibromofluoromethane	*95.7*		*79.0-121*		*04/03/2016 03:53*	WG860410
(S) 4-Bromofluorobenzene	*100*		*80.1-120*		*04/03/2016 03:53*	WG860410

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	ND		0.100	1	04/01/2016 19:08	WG859946
(S) 1-Chloro-octadecane	*55.6*		*40.0-140*		*04/01/2016 19:08*	WG859946

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	4.54		0.100	1	03/30/2016 04:43	WG859661
(S) 2,5-Dibromotoluene(FID)	*79.8*		*70.0-130*		*03/30/2016 04:43*	WG859661
(S) 2,5-Dibromotoluene(PID)	*83.1*		*70.0-130*		*03/30/2016 04:43*	WG859661

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	3.42		0.100	1	03/28/2016 22:26	WG860029
(S) a,a,a-Trifluorotoluene(FID)	*93.8*		*62.0-128*		*03/28/2016 22:26*	WG860029

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.164		0.0100	20	04/03/2016 04:13	WG860410
Toluene	0.845		0.0100	20	04/03/2016 04:13	WG860410
Ethylbenzene	0.320		0.0100	20	04/03/2016 04:13	WG860410
Xylenes, Total	0.727		0.0300	20	04/03/2016 04:13	WG860410
Methyl tert-butyl ether	ND		0.0100	20	04/03/2016 04:13	WG860410
Naphthalene	0.0330		0.0100	20	04/03/2016 04:13	WG860410
1,2-Dichloroethane	ND		0.0100	20	04/03/2016 04:13	WG860410
1,2,4-Trimethylbenzene	0.229		0.0100	20	04/03/2016 04:13	WG860410
1,3,5-Trimethylbenzene	0.0601		0.0100	20	04/03/2016 04:13	WG860410
n-Butylbenzene	ND		0.0100	20	04/03/2016 04:13	WG860410
n-Propylbenzene	0.0302		0.0100	20	04/03/2016 04:13	WG860410
Isopropylbenzene	ND		0.0100	20	04/03/2016 04:13	WG860410
2-Butanone (MEK)	ND		0.0500	20	04/03/2016 04:13	WG860410
Cyclohexane	0.0721		0.0200	20	04/03/2016 04:13	WG860410
Methyl Cyclohexane	ND		0.0200	20	04/03/2016 04:13	WG860410
(S) Toluene-d8	*94.3*		*90.0-115*		*04/03/2016 04:13*	WG860410
(S) Dibromofluoromethane	*93.0*		*79.0-121*		*04/03/2016 04:13*	WG860410
(S) 4-Bromofluorobenzene	*101*		*80.1-120*		*04/03/2016 04:13*	WG860410

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	1.37		0.100	1	04/01/2016 19:33	WG859946
(S) 1-Chloro-octadecane	*55.6*		*40.0-140*		*04/01/2016 19:33*	WG859946

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	5.43		0.100	1	03/30/2016 03:59	WG859661
(S) 2,5-Dibromotoluene(FID)	*82.7*		*70.0-130*		*03/30/2016 03:59*	WG859661
(S) 2,5-Dibromotoluene(PID)	*82.1*		*70.0-130*		*03/30/2016 03:59*	WG859661

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	13.3		1.00	10	03/28/2016 22:50	WG860029
(S) α,α,α-Trifluorotoluene(FID)	*90.7*		*62.0-128*		*03/28/2016 22:50*	WG860029

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.628		0.0125	25	04/03/2016 04:34	WG860410
Toluene	0.899		0.0125	25	04/03/2016 04:34	WG860410
Ethylbenzene	0.794		0.0125	25	04/03/2016 04:34	WG860410
Xylenes, Total	2.00		0.0375	25	04/03/2016 04:34	WG860410
Methyl tert-butyl ether	ND		0.0125	25	04/03/2016 04:34	WG860410
Naphthalene	0.0898		0.0125	25	04/03/2016 04:34	WG860410
1,2-Dichloroethane	ND		0.0125	25	04/03/2016 04:34	WG860410
1,2,4-Trimethylbenzene	0.564		0.0125	25	04/03/2016 04:34	WG860410
1,3,5-Trimethylbenzene	0.124		0.0125	25	04/03/2016 04:34	WG860410
n-Butylbenzene	ND		0.0125	25	04/03/2016 04:34	WG860410
n-Propylbenzene	0.0698		0.0125	25	04/03/2016 04:34	WG860410
Isopropylbenzene	0.0257		0.0125	25	04/03/2016 04:34	WG860410
2-Butanone (MEK)	ND		0.0625	25	04/03/2016 04:34	WG860410
Cyclohexane	0.102		0.0250	25	04/03/2016 04:34	WG860410
Methyl Cyclohexane	ND		0.0250	25	04/03/2016 04:34	WG860410
(S) Toluene-d8	*94.6*		*90.0-115*		*04/03/2016 04:34*	WG860410
(S) Dibromofluoromethane	*95.0*		*79.0-121*		*04/03/2016 04:34*	WG860410
(S) 4-Bromofluorobenzene	*101*		*80.1-120*		*04/03/2016 04:34*	WG860410

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	4.01		0.100	1	04/01/2016 19:58	WG859946
(S) 1-Chloro-octadecane	*53.5*		*40.0-140*		*04/01/2016 19:58*	WG859946

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	ND		0.100	1	03/30/2016 03:14	WG859661
(S) 2,5-Dibromotoluene(FID)	*77.7*		*70.0-130*		*03/30/2016 03:14*	WG859661
(S) 2,5-Dibromotoluene(PID)	*82.5*		*70.0-130*		*03/30/2016 03:14*	WG859661

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	03/28/2016 23:15	WG860029
(S) a,a,a-Trifluorotoluene(FID)	*89.5*		*62.0-128*		*03/28/2016 23:15*	WG860029

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	04/03/2016 04:54	WG860410
Toluene	ND		0.000500	1	04/03/2016 04:54	WG860410
Ethylbenzene	ND		0.000500	1	04/03/2016 04:54	WG860410
Xylenes, Total	ND		0.00150	1	04/03/2016 04:54	WG860410
Methyl tert-butyl ether	ND		0.000500	1	04/03/2016 04:54	WG860410
Naphthalene	ND		0.000500	1	04/03/2016 04:54	WG860410
1,2-Dichloroethane	ND		0.000500	1	04/03/2016 04:54	WG860410
1,2,4-Trimethylbenzene	ND		0.000500	1	04/03/2016 04:54	WG860410
1,3,5-Trimethylbenzene	ND		0.000500	1	04/03/2016 04:54	WG860410
n-Butylbenzene	ND		0.000500	1	04/03/2016 04:54	WG860410
n-Propylbenzene	ND		0.000500	1	04/03/2016 04:54	WG860410
Isopropylbenzene	ND		0.000500	1	04/03/2016 04:54	WG860410
2-Butanone (MEK)	ND		0.00250	1	04/03/2016 04:54	WG860410
Cyclohexane	ND		0.00100	1	04/03/2016 04:54	WG860410
Methyl Cyclohexane	ND		0.00100	1	04/03/2016 04:54	WG860410
(S) Toluene-d8	*93.1*		*90.0-115*		*04/03/2016 04:54*	WG860410
(S) Dibromofluoromethane	*96.4*		*79.0-121*		*04/03/2016 04:54*	WG860410
(S) 4-Bromofluorobenzene	*101*		*80.1-120*		*04/03/2016 04:54*	WG860410

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	ND		0.100	1	04/01/2016 20:22	WG859946
(S) 1-Chloro-octadecane	*52.4*		*40.0-140*		*04/01/2016 20:22*	WG859946

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	ND		0.100	1	03/30/2016 02:31	WG859661
(S) 2,5-Dibromotoluene(FID)	*78.7*		*70.0-130*		*03/30/2016 02:31*	WG859661
(S) 2,5-Dibromotoluene(PID)	*82.6*		*70.0-130*		*03/30/2016 02:31*	WG859661

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	03/28/2016 23:40	WG860029
(S) α,α,α-Trifluorotoluene(FID)	*90.0*		*62.0-128*		*03/28/2016 23:40*	WG860029

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00184		0.000500	1	04/03/2016 05:14	WG860410
Toluene	ND		0.000500	1	04/03/2016 05:14	WG860410
Ethylbenzene	0.000643		0.000500	1	04/03/2016 05:14	WG860410
Xylenes, Total	0.00156		0.00150	1	04/03/2016 05:14	WG860410
Methyl tert-butyl ether	ND		0.000500	1	04/03/2016 05:14	WG860410
Naphthalene	ND		0.000500	1	04/03/2016 05:14	WG860410
1,2-Dichloroethane	ND		0.000500	1	04/03/2016 05:14	WG860410
1,2,4-Trimethylbenzene	0.000835		0.000500	1	04/03/2016 05:14	WG860410
1,3,5-Trimethylbenzene	ND		0.000500	1	04/03/2016 05:14	WG860410
n-Butylbenzene	ND		0.000500	1	04/03/2016 05:14	WG860410
n-Propylbenzene	ND		0.000500	1	04/03/2016 05:14	WG860410
Isopropylbenzene	ND		0.000500	1	04/03/2016 05:14	WG860410
2-Butanone (MEK)	ND		0.00250	1	04/03/2016 05:14	WG860410
Cyclohexane	0.00109		0.00100	1	04/03/2016 05:14	WG860410
Methyl Cyclohexane	ND		0.00100	1	04/03/2016 05:14	WG860410
(S) Toluene-d8	*93.3*		*90.0-115*		*04/03/2016 05:14*	WG860410
(S) Dibromofluoromethane	*95.8*		*79.0-121*		*04/03/2016 05:14*	WG860410
(S) 4-Bromofluorobenzene	*102*		*80.1-120*		*04/03/2016 05:14*	WG860410

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	ND		0.100	1	04/01/2016 20:47	WG859946
(S) 1-Chloro-octadecane	*51.2*		*40.0-140*		*04/01/2016 20:47*	WG859946

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	ND		0.100	1	03/30/2016 01:47	WG859661
(S) 2,5-Dibromotoluene(FID)	*77.1*		*70.0-130*		*03/30/2016 01:47*	WG859661
(S) 2,5-Dibromotoluene(PID)	*81.4*		*70.0-130*		*03/30/2016 01:47*	WG859661

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	03/29/2016 00:04	WG860029
(S) α,α,α-Trifluorotoluene(FID)	*89.5*		*62.0-128*		*03/29/2016 00:04*	WG860029

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	04/03/2016 05:35	WG860410
Toluene	ND		0.000500	1	04/03/2016 05:35	WG860410
Ethylbenzene	ND		0.000500	1	04/03/2016 05:35	WG860410
Xylenes, Total	ND		0.00150	1	04/03/2016 05:35	WG860410
Methyl tert-butyl ether	ND		0.000500	1	04/03/2016 05:35	WG860410
Naphthalene	ND		0.000500	1	04/03/2016 05:35	WG860410
1,2-Dichloroethane	ND		0.000500	1	04/03/2016 05:35	WG860410
1,2,4-Trimethylbenzene	ND		0.000500	1	04/03/2016 05:35	WG860410
1,3,5-Trimethylbenzene	ND		0.000500	1	04/03/2016 05:35	WG860410
n-Butylbenzene	ND		0.000500	1	04/03/2016 05:35	WG860410
n-Propylbenzene	ND		0.000500	1	04/03/2016 05:35	WG860410
Isopropylbenzene	ND		0.000500	1	04/03/2016 05:35	WG860410
2-Butanone (MEK)	ND		0.00250	1	04/03/2016 05:35	WG860410
Cyclohexane	ND		0.00100	1	04/03/2016 05:35	WG860410
Methyl Cyclohexane	ND		0.00100	1	04/03/2016 05:35	WG860410
(S) Toluene-d8	*95.3*		*90.0-115*		*04/03/2016 05:35*	WG860410
(S) Dibromofluoromethane	*96.6*		*79.0-121*		*04/03/2016 05:35*	WG860410
(S) 4-Bromofluorobenzene	*103*		*80.1-120*		*04/03/2016 05:35*	WG860410

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	ND		0.100	1	04/01/2016 21:12	WG859946
(S) 1-Chloro-octadecane	*56.7*		*40.0-140*		*04/01/2016 21:12*	WG859946

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	ND		0.100	1	03/30/2016 01:03	WG859661
(S) 2,5-Dibromotoluene(FID)	*76.3*		*70.0-130*		*03/30/2016 01:03*	WG859661
(S) 2,5-Dibromotoluene(PID)	*80.8*		*70.0-130*		*03/30/2016 01:03*	WG859661

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	03/29/2016 00:29	WG860029
(S) a,a,a-Trifluorotoluene(FID)	*86.9*		*62.0-128*		*03/29/2016 00:29*	WG860029

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	04/03/2016 05:55	WG860410
Toluene	ND		0.000500	1	04/03/2016 05:55	WG860410
Ethylbenzene	ND		0.000500	1	04/03/2016 05:55	WG860410
Xylenes, Total	ND		0.00150	1	04/03/2016 05:55	WG860410
Methyl tert-butyl ether	ND		0.000500	1	04/03/2016 05:55	WG860410
Naphthalene	ND		0.000500	1	04/03/2016 05:55	WG860410
1,2-Dichloroethane	ND		0.000500	1	04/03/2016 05:55	WG860410
1,2,4-Trimethylbenzene	ND		0.000500	1	04/03/2016 05:55	WG860410
1,3,5-Trimethylbenzene	ND		0.000500	1	04/03/2016 05:55	WG860410
n-Butylbenzene	ND		0.000500	1	04/03/2016 05:55	WG860410
n-Propylbenzene	ND		0.000500	1	04/03/2016 05:55	WG860410
Isopropylbenzene	ND		0.000500	1	04/03/2016 05:55	WG860410
2-Butanone (MEK)	ND		0.00250	1	04/03/2016 05:55	WG860410
Cyclohexane	ND		0.00100	1	04/03/2016 05:55	WG860410
Methyl Cyclohexane	ND		0.00100	1	04/03/2016 05:55	WG860410
(S) Toluene-d8	*94.4*		*90.0-115*		*04/03/2016 05:55*	WG860410
(S) Dibromofluoromethane	*96.0*		*79.0-121*		*04/03/2016 05:55*	WG860410
(S) 4-Bromofluorobenzene	*102*		*80.1-120*		*04/03/2016 05:55*	WG860410

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	ND		0.100	1	04/01/2016 21:37	WG859946
(S) 1-Chloro-octadecane	*61.0*		*40.0-140*		*04/01/2016 21:37*	WG859946

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	ND		0.100	1	03/30/2016 00:19	WG859661
(S) 2,5-Dibromotoluene(FID)	*76.1*		*70.0-130*		*03/30/2016 00:19*	WG859661
(S) 2,5-Dibromotoluene(PID)	*80.6*		*70.0-130*		*03/30/2016 00:19*	WG859661

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	03/29/2016 00:54	WG860029
(S) α,α,α-Trifluorotoluene(FID)	*89.1*		*62.0-128*		*03/29/2016 00:54*	WG860029

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	04/03/2016 06:15	WG860410
Toluene	ND		0.000500	1	04/03/2016 06:15	WG860410
Ethylbenzene	ND		0.000500	1	04/03/2016 06:15	WG860410
Xylenes, Total	ND		0.00150	1	04/03/2016 06:15	WG860410
Methyl tert-butyl ether	ND		0.000500	1	04/03/2016 06:15	WG860410
Naphthalene	ND		0.000500	1	04/03/2016 06:15	WG860410
1,2-Dichloroethane	ND		0.000500	1	04/03/2016 06:15	WG860410
1,2,4-Trimethylbenzene	ND		0.000500	1	04/03/2016 06:15	WG860410
1,3,5-Trimethylbenzene	ND		0.000500	1	04/03/2016 06:15	WG860410
n-Butylbenzene	ND		0.000500	1	04/03/2016 06:15	WG860410
n-Propylbenzene	ND		0.000500	1	04/03/2016 06:15	WG860410
Isopropylbenzene	ND		0.000500	1	04/03/2016 06:15	WG860410
2-Butanone (MEK)	ND		0.00250	1	04/03/2016 06:15	WG860410
Cyclohexane	ND		0.00100	1	04/03/2016 06:15	WG860410
Methyl Cyclohexane	ND		0.00100	1	04/03/2016 06:15	WG860410
(S) Toluene-d8	*93.6*		*90.0-115*		*04/03/2016 06:15*	WG860410
(S) Dibromofluoromethane	*95.8*		*79.0-121*		*04/03/2016 06:15*	WG860410
(S) 4-Bromofluorobenzene	*102*		*80.1-120*		*04/03/2016 06:15*	WG860410

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	ND		0.100	1	04/01/2016 22:02	WG859946
(S) 1-Chloro-octadecane	*53.6*		*40.0-140*		*04/01/2016 22:02*	WG859946

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	ND		0.100	1	03/29/2016 23:34	WG859661
(S) 2,5-Dibromotoluene(FID)	*75.5*		*70.0-130*		*03/29/2016 23:34*	WG859661
(S) 2,5-Dibromotoluene(PID)	*79.4*		*70.0-130*		*03/29/2016 23:34*	WG859661

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	03/29/2016 01:19	WG860029
(S) a,a,a-Trifluorotoluene(FID)	*87.1*		*62.0-128*		*03/29/2016 01:19*	WG860029

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	04/03/2016 06:35	WG860410
Toluene	ND		0.000500	1	04/03/2016 06:35	WG860410
Ethylbenzene	ND		0.000500	1	04/03/2016 06:35	WG860410
Xylenes, Total	ND		0.00150	1	04/03/2016 06:35	WG860410
Methyl tert-butyl ether	ND		0.000500	1	04/03/2016 06:35	WG860410
Naphthalene	ND		0.000500	1	04/03/2016 06:35	WG860410
1,2-Dichloroethane	ND		0.000500	1	04/03/2016 06:35	WG860410
1,2,4-Trimethylbenzene	ND		0.000500	1	04/03/2016 06:35	WG860410
1,3,5-Trimethylbenzene	ND		0.000500	1	04/03/2016 06:35	WG860410
n-Butylbenzene	ND		0.000500	1	04/03/2016 06:35	WG860410
n-Propylbenzene	ND		0.000500	1	04/03/2016 06:35	WG860410
Isopropylbenzene	ND		0.000500	1	04/03/2016 06:35	WG860410
2-Butanone (MEK)	ND		0.00250	1	04/03/2016 06:35	WG860410
Cyclohexane	ND		0.00100	1	04/03/2016 06:35	WG860410
Methyl Cyclohexane	ND		0.00100	1	04/03/2016 06:35	WG860410
(S) Toluene-d8	*93.3*		*90.0-115*		*04/03/2016 06:35*	WG860410
(S) Dibromofluoromethane	*95.3*		*79.0-121*		*04/03/2016 06:35*	WG860410
(S) 4-Bromofluorobenzene	*99.3*		*80.1-120*		*04/03/2016 06:35*	WG860410

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	ND		0.100	1	04/01/2016 22:26	WG859946
(S) 1-Chloro-octadecane	*67.9*		*40.0-140*		*04/01/2016 22:26*	WG859946

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	ND		0.100	1	03/29/2016 22:50	WG859661
(S) 2,5-Dibromotoluene(FID)	*78.4*		*70.0-130*		*03/29/2016 22:50*	WG859661
(S) 2,5-Dibromotoluene(PID)	*82.8*		*70.0-130*		*03/29/2016 22:50*	WG859661

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	03/29/2016 01:43	WG860029
(S) α,α,α-Trifluorotoluene(FID)	*90.4*		*62.0-128*		*03/29/2016 01:43*	WG860029

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	04/03/2016 06:56	WG860410
Toluene	ND		0.000500	1	04/03/2016 06:56	WG860410
Ethylbenzene	ND		0.000500	1	04/03/2016 06:56	WG860410
Xylenes, Total	ND		0.00150	1	04/03/2016 06:56	WG860410
Methyl tert-butyl ether	ND		0.000500	1	04/03/2016 06:56	WG860410
Naphthalene	ND		0.000500	1	04/03/2016 06:56	WG860410
1,2-Dichloroethane	ND		0.000500	1	04/03/2016 06:56	WG860410
1,2,4-Trimethylbenzene	ND		0.000500	1	04/03/2016 06:56	WG860410
1,3,5-Trimethylbenzene	ND		0.000500	1	04/03/2016 06:56	WG860410
n-Butylbenzene	ND		0.000500	1	04/03/2016 06:56	WG860410
n-Propylbenzene	ND		0.000500	1	04/03/2016 06:56	WG860410
Isopropylbenzene	ND		0.000500	1	04/03/2016 06:56	WG860410
2-Butanone (MEK)	ND		0.00250	1	04/03/2016 06:56	WG860410
Cyclohexane	ND		0.00100	1	04/03/2016 06:56	WG860410
Methyl Cyclohexane	ND		0.00100	1	04/03/2016 06:56	WG860410
(S) Toluene-d8	*93.4*		*90.0-115*		*04/03/2016 06:56*	WG860410
(S) Dibromofluoromethane	*94.8*		*79.0-121*		*04/03/2016 06:56*	WG860410
(S) 4-Bromofluorobenzene	*101*		*80.1-120*		*04/03/2016 06:56*	WG860410

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	ND		0.100	1	04/01/2016 22:51	WG859946
(S) 1-Chloro-octadecane	*62.1*		*40.0-140*		*04/01/2016 22:51*	WG859946

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	ND		0.100	1	03/29/2016 22:06	WG859661
(S) 2,5-Dibromotoluene(FID)	*76.7*		*70.0-130*		*03/29/2016 22:06*	WG859661
(S) 2,5-Dibromotoluene(PID)	*80.7*		*70.0-130*		*03/29/2016 22:06*	WG859661

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	03/29/2016 02:08	WG860029
(S) α,α,α-Trifluorotoluene(FID)	*91.2*		*62.0-128*		*03/29/2016 02:08*	WG860029

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	04/03/2016 07:16	WG860410
Toluene	ND		0.000500	1	04/03/2016 07:16	WG860410
Ethylbenzene	ND		0.000500	1	04/03/2016 07:16	WG860410
Xylenes, Total	ND		0.00150	1	04/03/2016 07:16	WG860410
Methyl tert-butyl ether	ND		0.000500	1	04/03/2016 07:16	WG860410
Naphthalene	ND		0.000500	1	04/03/2016 07:16	WG860410
1,2-Dichloroethane	ND		0.000500	1	04/03/2016 07:16	WG860410
1,2,4-Trimethylbenzene	ND		0.000500	1	04/03/2016 07:16	WG860410
1,3,5-Trimethylbenzene	ND		0.000500	1	04/03/2016 07:16	WG860410
n-Butylbenzene	ND		0.000500	1	04/03/2016 07:16	WG860410
n-Propylbenzene	ND		0.000500	1	04/03/2016 07:16	WG860410
Isopropylbenzene	ND		0.000500	1	04/03/2016 07:16	WG860410
2-Butanone (MEK)	ND		0.00250	1	04/03/2016 07:16	WG860410
Cyclohexane	ND		0.00100	1	04/03/2016 07:16	WG860410
Methyl Cyclohexane	ND		0.00100	1	04/03/2016 07:16	WG860410
(S) Toluene-d8	*93.6*		*90.0-115*		*04/03/2016 07:16*	WG860410
(S) Dibromofluoromethane	*94.7*		*79.0-121*		*04/03/2016 07:16*	WG860410
(S) 4-Bromofluorobenzene	*101*		*80.1-120*		*04/03/2016 07:16*	WG860410

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	ND		0.100	1	04/01/2016 23:16	WG859946
(S) 1-Chloro-octadecane	*57.8*		*40.0-140*		*04/01/2016 23:16*	WG859946

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	ND		0.100	1	03/29/2016 21:23	WG859661
(S) 2,5-Dibromotoluene(FID)	*77.7*		*70.0-130*		*03/29/2016 21:23*	WG859661
(S) 2,5-Dibromotoluene(PID)	*82.0*		*70.0-130*		*03/29/2016 21:23*	WG859661

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	03/29/2016 02:33	WG860029
(S) a,a,a-Trifluorotoluene(FID)	*91.9*		*62.0-128*		*03/29/2016 02:33*	WG860029

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	04/03/2016 07:36	WG860410
Toluene	ND		0.000500	1	04/03/2016 07:36	WG860410
Ethylbenzene	ND		0.000500	1	04/03/2016 07:36	WG860410
Xylenes, Total	ND		0.00150	1	04/03/2016 07:36	WG860410
Methyl tert-butyl ether	ND		0.000500	1	04/03/2016 07:36	WG860410
Naphthalene	ND		0.000500	1	04/03/2016 07:36	WG860410
1,2-Dichloroethane	ND		0.000500	1	04/03/2016 07:36	WG860410
1,2,4-Trimethylbenzene	ND		0.000500	1	04/03/2016 07:36	WG860410
1,3,5-Trimethylbenzene	ND		0.000500	1	04/03/2016 07:36	WG860410
n-Butylbenzene	ND		0.000500	1	04/03/2016 07:36	WG860410
n-Propylbenzene	ND		0.000500	1	04/03/2016 07:36	WG860410
Isopropylbenzene	ND		0.000500	1	04/03/2016 07:36	WG860410
2-Butanone (MEK)	ND		0.00250	1	04/03/2016 07:36	WG860410
Cyclohexane	ND		0.00100	1	04/03/2016 07:36	WG860410
Methyl Cyclohexane	ND		0.00100	1	04/03/2016 07:36	WG860410
(S) Toluene-d8	*93.4*		*90.0-115*		*04/03/2016 07:36*	WG860410
(S) Dibromofluoromethane	*93.2*		*79.0-121*		*04/03/2016 07:36*	WG860410
(S) 4-Bromofluorobenzene	*99.6*		*80.1-120*		*04/03/2016 07:36*	WG860410

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	ND		0.100	1	04/04/2016 22:19	WG861588
(S) 1-Chloro-octadecane	*63.3*		*40.0-140*		*04/04/2016 22:19*	WG861588

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	ND		0.100	1	03/29/2016 20:39	WG859661
(S) 2,5-Dibromotoluene(FID)	*75.1*		*70.0-130*		*03/29/2016 20:39*	WG859661
(S) 2,5-Dibromotoluene(PID)	*79.0*		*70.0-130*		*03/29/2016 20:39*	WG859661

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	03/29/2016 02:57	WG860029
(S) a,a,a-Trifluorotoluene(FID)	*92.1*		*62.0-128*		*03/29/2016 02:57*	WG860029

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	04/03/2016 07:57	WG860410
Toluene	ND		0.000500	1	04/03/2016 07:57	WG860410
Ethylbenzene	ND		0.000500	1	04/03/2016 07:57	WG860410
Xylenes, Total	ND		0.00150	1	04/03/2016 07:57	WG860410
Methyl tert-butyl ether	ND		0.000500	1	04/03/2016 07:57	WG860410
Naphthalene	ND		0.000500	1	04/03/2016 07:57	WG860410
1,2-Dichloroethane	ND		0.000500	1	04/03/2016 07:57	WG860410
1,2,4-Trimethylbenzene	ND		0.000500	1	04/03/2016 07:57	WG860410
1,3,5-Trimethylbenzene	ND		0.000500	1	04/03/2016 07:57	WG860410
n-Butylbenzene	ND		0.000500	1	04/03/2016 07:57	WG860410
n-Propylbenzene	ND		0.000500	1	04/03/2016 07:57	WG860410
Isopropylbenzene	ND		0.000500	1	04/03/2016 07:57	WG860410
2-Butanone (MEK)	ND		0.00250	1	04/03/2016 07:57	WG860410
Cyclohexane	ND		0.00100	1	04/03/2016 07:57	WG860410
Methyl Cyclohexane	ND		0.00100	1	04/03/2016 07:57	WG860410
(S) Toluene-d8	*92.8*		*90.0-115*		*04/03/2016 07:57*	WG860410
(S) Dibromofluoromethane	*96.6*		*79.0-121*		*04/03/2016 07:57*	WG860410
(S) 4-Bromofluorobenzene	*100*		*80.1-120*		*04/03/2016 07:57*	WG860410

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	ND		0.100	1	04/02/2016 00:06	WG859946
(S) 1-Chloro-octadecane	*58.5*		*40.0-140*		*04/02/2016 00:06*	WG859946

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	ND		0.100	1	03/29/2016 19:56	WG859661
(S) 2,5-Dibromotoluene(FID)	*74.6*		*70.0-130*		*03/29/2016 19:56*	WG859661
(S) 2,5-Dibromotoluene(PID)	*78.1*		*70.0-130*		*03/29/2016 19:56*	WG859661

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	03/29/2016 03:22	WG860029
(S) a,a,a-Trifluorotoluene(FID)	*93.5*		*62.0-128*		*03/29/2016 03:22*	WG860029

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	04/03/2016 08:17	WG860410
Toluene	ND		0.000500	1	04/03/2016 08:17	WG860410
Ethylbenzene	ND		0.000500	1	04/03/2016 08:17	WG860410
Xylenes, Total	ND		0.00150	1	04/03/2016 08:17	WG860410
Methyl tert-butyl ether	ND		0.000500	1	04/03/2016 08:17	WG860410
Naphthalene	ND		0.000500	1	04/03/2016 08:17	WG860410
1,2-Dichloroethane	ND		0.000500	1	04/03/2016 08:17	WG860410
1,2,4-Trimethylbenzene	ND		0.000500	1	04/03/2016 08:17	WG860410
1,3,5-Trimethylbenzene	ND		0.000500	1	04/03/2016 08:17	WG860410
n-Butylbenzene	ND		0.000500	1	04/03/2016 08:17	WG860410
n-Propylbenzene	ND		0.000500	1	04/03/2016 08:17	WG860410
Isopropylbenzene	ND		0.000500	1	04/03/2016 08:17	WG860410
2-Butanone (MEK)	ND		0.00250	1	04/03/2016 08:17	WG860410
Cyclohexane	ND		0.00100	1	04/03/2016 08:17	WG860410
Methyl Cyclohexane	ND		0.00100	1	04/03/2016 08:17	WG860410
(S) Toluene-d8	*93.7*		*90.0-115*		*04/03/2016 08:17*	WG860410
(S) Dibromofluoromethane	*95.7*		*79.0-121*		*04/03/2016 08:17*	WG860410
(S) 4-Bromofluorobenzene	*99.9*		*80.1-120*		*04/03/2016 08:17*	WG860410

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	ND		0.100	1	04/02/2016 00:30	WG859946
(S) 1-Chloro-octadecane	*60.1*		*40.0-140*		*04/02/2016 00:30*	WG859946

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	ND		0.100	1	03/29/2016 19:12	WG859661
(S) 2,5-Dibromotoluene(FID)	*76.4*		*70.0-130*		*03/29/2016 19:12*	WG859661
(S) 2,5-Dibromotoluene(PID)	*80.3*		*70.0-130*		*03/29/2016 19:12*	WG859661

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	03/29/2016 03:47	WG860029
(S) α,α,α-Trifluorotoluene(FID)	*88.0*		*62.0-128*		*03/29/2016 03:47*	WG860029

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	04/03/2016 08:38	WG860410
Toluene	ND		0.000500	1	04/03/2016 08:38	WG860410
Ethylbenzene	ND		0.000500	1	04/03/2016 08:38	WG860410
Xylenes, Total	ND		0.00150	1	04/03/2016 08:38	WG860410
Methyl tert-butyl ether	ND		0.000500	1	04/03/2016 08:38	WG860410
Naphthalene	ND		0.000500	1	04/03/2016 08:38	WG860410
1,2-Dichloroethane	ND		0.000500	1	04/03/2016 08:38	WG860410
1,2,4-Trimethylbenzene	ND		0.000500	1	04/03/2016 08:38	WG860410
1,3,5-Trimethylbenzene	ND		0.000500	1	04/03/2016 08:38	WG860410
n-Butylbenzene	ND		0.000500	1	04/03/2016 08:38	WG860410
n-Propylbenzene	ND		0.000500	1	04/03/2016 08:38	WG860410
Isopropylbenzene	ND		0.000500	1	04/03/2016 08:38	WG860410
2-Butanone (MEK)	ND		0.00250	1	04/03/2016 08:38	WG860410
Cyclohexane	ND		0.00100	1	04/03/2016 08:38	WG860410
Methyl Cyclohexane	ND		0.00100	1	04/03/2016 08:38	WG860410
(S) Toluene-d8	*93.0*		*90.0-115*		*04/03/2016 08:38*	WG860410
(S) Dibromofluoromethane	*97.6*		*79.0-121*		*04/03/2016 08:38*	WG860410
(S) 4-Bromofluorobenzene	*101*		*80.1-120*		*04/03/2016 08:38*	WG860410

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	ND		0.100	1	04/02/2016 00:55	WG859946
(S) 1-Chloro-octadecane	*55.2*		*40.0-140*		*04/02/2016 00:55*	WG859946

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	04/05/2016 14:53	WG862038
Toluene	ND		0.000500	1	04/05/2016 14:53	WG862038
Ethylbenzene	ND		0.000500	1	04/05/2016 14:53	WG862038
Xylenes, Total	ND		0.00150	1	04/05/2016 14:53	WG862038
Methyl tert-butyl ether	ND		0.000500	1	04/05/2016 14:53	WG862038
Naphthalene	ND		0.000500	1	04/05/2016 14:53	WG862038
1,2-Dichloroethane	ND		0.000500	1	04/05/2016 14:53	WG862038
1,2,4-Trimethylbenzene	ND		0.000500	1	04/05/2016 14:53	WG862038
1,3,5-Trimethylbenzene	ND		0.000500	1	04/05/2016 14:53	WG862038
n-Butylbenzene	ND		0.000500	1	04/05/2016 14:53	WG862038
n-Propylbenzene	ND		0.000500	1	04/05/2016 14:53	WG862038
Isopropylbenzene	ND		0.000500	1	04/05/2016 14:53	WG862038
2-Butanone (MEK)	ND		0.00250	1	04/05/2016 14:53	WG862038
Cyclohexane	ND		0.00100	1	04/05/2016 14:53	WG862038
Methyl Cyclohexane	ND		0.00100	1	04/05/2016 14:53	WG862038
(S) Toluene-d8	*101*		*90.0-115*		*04/05/2016 14:53*	WG862038
(S) Dibromofluoromethane	*89.3*		*79.0-121*		*04/05/2016 14:53*	WG862038
(S) 4-Bromofluorobenzene	*101*		*80.1-120*		*04/05/2016 14:53*	WG862038

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	ND		0.100	1	03/29/2016 18:28	WG859661
(S) 2,5-Dibromotoluene(FID)	*76.5*		*70.0-130*		*03/29/2016 18:28*	WG859661
(S) 2,5-Dibromotoluene(PID)	*81.7*		*70.0-130*		*03/29/2016 18:28*	WG859661

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	03/29/2016 04:11	WG860029
(S) a,a,a-Trifluorotoluene(FID)	*87.3*		*62.0-128*		*03/29/2016 04:11*	WG860029

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	04/03/2016 08:58	WG860410
Toluene	ND		0.000500	1	04/03/2016 08:58	WG860410
Ethylbenzene	ND		0.000500	1	04/03/2016 08:58	WG860410
Xylenes, Total	ND		0.00150	1	04/03/2016 08:58	WG860410
Methyl tert-butyl ether	ND		0.000500	1	04/03/2016 08:58	WG860410
Naphthalene	ND		0.000500	1	04/03/2016 08:58	WG860410
1,2-Dichloroethane	ND		0.000500	1	04/03/2016 08:58	WG860410
1,2,4-Trimethylbenzene	ND		0.000500	1	04/03/2016 08:58	WG860410
1,3,5-Trimethylbenzene	ND		0.000500	1	04/03/2016 08:58	WG860410
n-Butylbenzene	ND		0.000500	1	04/03/2016 08:58	WG860410
n-Propylbenzene	ND		0.000500	1	04/03/2016 08:58	WG860410
Isopropylbenzene	ND		0.000500	1	04/03/2016 08:58	WG860410
2-Butanone (MEK)	ND		0.00250	1	04/03/2016 08:58	WG860410
Cyclohexane	ND		0.00100	1	04/03/2016 08:58	WG860410
Methyl Cyclohexane	ND		0.00100	1	04/03/2016 08:58	WG860410
(S) Toluene-d8	*94.2*		*90.0-115*		*04/03/2016 08:58*	WG860410
(S) Dibromofluoromethane	*94.3*		*79.0-121*		*04/03/2016 08:58*	WG860410
(S) 4-Bromofluorobenzene	*98.8*		*80.1-120*		*04/03/2016 08:58*	WG860410

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	ND		0.100	1	04/02/2016 01:20	WG859946
(S) 1-Chloro-octadecane	*62.3*		*40.0-140*		*04/02/2016 01:20*	WG859946

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	ND		0.100	1	03/29/2016 17:45	WG859661
(S) 2,5-Dibromotoluene(FID)	*78.1*		*70.0-130*		*03/29/2016 17:45*	WG859661
(S) 2,5-Dibromotoluene(PID)	*81.1*		*70.0-130*		*03/29/2016 17:45*	WG859661

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	03/29/2016 04:36	WG860029
(S) a,a,a-Trifluorotoluene(FID)	*90.0*		*62.0-128*		*03/29/2016 04:36*	WG860029

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00188		0.000500	1	04/03/2016 02:52	WG860410
Toluene	ND		0.000500	1	04/03/2016 02:52	WG860410
Ethylbenzene	0.000685		0.000500	1	04/03/2016 02:52	WG860410
Xylenes, Total	0.00156		0.00150	1	04/03/2016 02:52	WG860410
Methyl tert-butyl ether	ND		0.000500	1	04/03/2016 02:52	WG860410
Naphthalene	ND		0.000500	1	04/03/2016 02:52	WG860410
1,2-Dichloroethane	ND		0.000500	1	04/03/2016 02:52	WG860410
1,2,4-Trimethylbenzene	0.000852		0.000500	1	04/03/2016 02:52	WG860410
1,3,5-Trimethylbenzene	ND		0.000500	1	04/03/2016 02:52	WG860410
n-Butylbenzene	ND		0.000500	1	04/03/2016 02:52	WG860410
n-Propylbenzene	ND		0.000500	1	04/03/2016 02:52	WG860410
Isopropylbenzene	ND		0.000500	1	04/03/2016 02:52	WG860410
2-Butanone (MEK)	ND		0.00250	1	04/03/2016 02:52	WG860410
Cyclohexane	0.00114		0.00100	1	04/03/2016 02:52	WG860410
Methyl Cyclohexane	ND		0.00100	1	04/03/2016 02:52	WG860410
(S) Toluene-d8	*93.3*		*90.0-115*		*04/03/2016 02:52*	WG860410
(S) Dibromofluoromethane	*96.1*		*79.0-121*		*04/03/2016 02:52*	WG860410
(S) 4-Bromofluorobenzene	*102*		*80.1-120*		*04/03/2016 02:52*	WG860410

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	ND		0.100	1	04/02/2016 01:45	WG859946
(S) 1-Chloro-octadecane	*58.7*		*40.0-140*		*04/02/2016 01:45*	WG859946

QUALITY CONTROL SUMMARY

L825658-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,19,20

Method Blank (MB)

(MB) R3124990-3 03/29/16 03:32

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
LRH (C5-C8)	0.0200		0.00931	0.100
(S) 2,5-Dibromotoluene(FID)	*79.0*			*70.0-130*
(S) 2,5-Dibromotoluene(PID)	*86.8*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3124990-1 03/29/16 00:36 • (LCSD) R3124990-2 03/29/16 01:19

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
LRH (C5-C8)	1.20	1.05	1.05	87.6	87.4	70.0-130			0.190	25
(S) 2,5-Dibromotoluene(FID)				*88.4*	*82.6*	*70.0-130*				
(S) 2,5-Dibromotoluene(PID)				*95.0*	*89.1*	*70.0-130*				

QUALITY CONTROL SUMMARY

L825658-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,19,20

Method Blank (MB)

(MB) R3124568-3 03/28/16 18:46

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*94.8*			*62.0-128*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3124568-1 03/28/16 17:31 • (LCSD) R3124568-2 03/28/16 17:56

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	6.63	6.50	121	118	67.0-132			2.00	20
(S) a,a,a-Trifluorotoluene(FID)				*105*	*105*	*62.0-128*				

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L824901-01 03/28/16 20:47 • (MS) R3124568-4 03/28/16 19:33 • (MSD) R3124568-5 03/28/16 19:58

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	0.0243	4.80	5.00	86.9	90.5	1	50.0-143			4.06	20
(S) a,a,a-Trifluorotoluene(FID)					*100*	*95.5*		*62.0-128*				

Method Blank (MB)

(MB) R3126046-3 04/03/16 01:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000896	0.000500
n-Butylbenzene	U		0.000143	0.000500
Cyclohexane	U		0.000390	0.00100
1,2-Dichloroethane	U		0.000108	0.000500
Ethylbenzene	U		0.000158	0.000500
Isopropylbenzene	U		0.000126	0.000500
2-Butanone (MEK)	U		0.00128	0.00250
Methyl Cyclohexane	U		0.000380	0.00100
Methyl tert-butyl ether	U		0.000102	0.000500
Naphthalene	U		0.000174	0.000500
n-Propylbenzene	U		0.000162	0.000500
Toluene	U		0.000102	0.000500
1,2,4-Trimethylbenzene	U		0.000123	0.000500
1,3,5-Trimethylbenzene	U		0.000124	0.000500
Xylenes, Total	U		0.000316	0.00150
(S) Toluene-d8	*94.2*			*90.0-115*
(S) Dibromofluoromethane	*97.3*			*79.0-121*
(S) 4-Bromofluorobenzene	*102*			*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3126046-1 04/02/16 23:22 • (LCSD) R3126046-2 04/02/16 23:42

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0250	0.0218	0.0232	87.2	92.9	73.0-122			6.28	20
n-Butylbenzene	0.0250	0.0222	0.0234	88.8	93.8	75.9-134			5.46	20
1,2-Dichloroethane	0.0250	0.0179	0.0186	71.4	74.6	65.3-126			4.27	20
Ethylbenzene	0.0250	0.0259	0.0277	103	111	80.9-121			7.02	20
Isopropylbenzene	0.0250	0.0253	0.0272	101	109	81.6-124			7.15	20
2-Butanone (MEK)	0.125	0.0867	0.0891	69.4	71.2	46.4-155			2.66	20
Methyl tert-butyl ether	0.0250	0.0200	0.0214	79.9	85.7	70.1-125			6.94	20
Naphthalene	0.0250	0.0208	0.0210	83.3	83.8	69.7-134			0.620	20
n-Propylbenzene	0.0250	0.0251	0.0267	100	107	81.9-122			6.41	20
Toluene	0.0250	0.0223	0.0240	89.2	95.8	77.9-116			7.18	20
1,2,4-Trimethylbenzene	0.0250	0.0246	0.0263	98.5	105	79.0-122			6.65	20
1,3,5-Trimethylbenzene	0.0250	0.0251	0.0267	100	107	81.0-123			6.37	20

QUALITY CONTROL SUMMARY

L825658-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,19,20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3126046-1 04/02/16 23:22 • (LCSD) R3126046-2 04/02/16 23:42

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Xylenes, Total	0.0750	0.0775	0.0829	103	110	79.2-122			6.74	20
(S) Toluene-d8				*93.8*	*93.8*	*90.0-115*				
(S) Dibromofluoromethane				*94.9*	*94.5*	*79.0-121*				
(S) 4-Bromofluorobenzene				*98.7*	*98.0*	*80.1-120*				

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L825658-20 04/03/16 02:52 • (MS) R3126046-4 04/03/16 01:30 • (MSD) R3126046-5 04/03/16 01:50

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.0250	0.00188	0.0215	0.0222	78.3	81.4	1	58.6-133			3.49	20
n-Butylbenzene	0.0250	ND	0.0210	0.0219	83.9	87.5	1	64.8-145			4.24	20
1,2-Dichloroethane	0.0250	ND	0.0167	0.0172	66.9	68.8	1	60.7-132			2.81	20
Ethylbenzene	0.0250	0.000685	0.0244	0.0257	94.9	100	1	62.7-136			5.14	20
Isopropylbenzene	0.0250	ND	0.0234	0.0247	93.8	98.6	1	67.4-136			5.05	20
2-Butanone (MEK)	0.125	ND	0.0651	0.0644	52.1	51.5	1	45.0-156			1.07	20.8
Methyl tert-butyl ether	0.0250	ND	0.0193	0.0200	77.2	80.1	1	61.4-136			3.68	20
Naphthalene	0.0250	0.000334	0.0201	0.0208	79.0	81.7	1	61.8-143			3.28	20
n-Propylbenzene	0.0250	ND	0.0232	0.0246	92.8	98.5	1	63.2-139			5.91	20
Toluene	0.0250	ND	0.0203	0.0212	81.4	84.8	1	67.8-124			4.14	20
1,2,4-Trimethylbenzene	0.0250	0.000852	0.0238	0.0250	91.9	96.5	1	60.5-137			4.65	20
1,3,5-Trimethylbenzene	0.0250	ND	0.0232	0.0243	92.8	97.2	1	67.9-134			4.65	20
Xylenes, Total	0.0750	0.00156	0.0725	0.0762	94.6	99.5	1	65.6-133			4.89	20
(S) Toluene-d8					*92.8*	*94.0*		*90.0-115*				
(S) Dibromofluoromethane					*94.6*	*96.2*		*79.0-121*				
(S) 4-Bromofluorobenzene					*96.5*	*97.9*		*80.1-120*				

QUALITY CONTROL SUMMARY

L825658-18

Method Blank (MB)

(MB) R3126470-3 04/05/16 13:18

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000896	0.000500
n-Butylbenzene	U		0.000143	0.000500
Cyclohexane	U		0.000390	0.00100
1,2-Dichloroethane	U		0.000108	0.000500
Ethylbenzene	U		0.000158	0.000500
Methyl Cyclohexane	U		0.000380	0.00100
Isopropylbenzene	U		0.000126	0.000500
2-Butanone (MEK)	U		0.00128	0.00250
Methyl tert-butyl ether	U		0.000102	0.000500
Naphthalene	U		0.000174	0.000500
n-Propylbenzene	U		0.000162	0.000500
Toluene	U		0.000102	0.000500
1,2,4-Trimethylbenzene	U		0.000123	0.000500
1,3,5-Trimethylbenzene	U		0.000124	0.000500
Xylenes, Total	U		0.000316	0.00150
(S) Toluene-d8	*99.9*			*90.0-115*
(S) Dibromofluoromethane	*90.1*			*79.0-121*
(S) 4-Bromofluorobenzene	*103*			*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3126470-1 04/05/16 11:33 • (LCSD) R3126470-2 04/05/16 11:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0250	0.0229	0.0233	91.5	93.3	73.0-122			1.86	20
n-Butylbenzene	0.0250	0.0237	0.0243	94.9	97.1	75.9-134			2.23	20
1,2-Dichloroethane	0.0250	0.0194	0.0196	77.8	78.3	65.3-126			0.690	20
Ethylbenzene	0.0250	0.0247	0.0255	98.8	102	80.9-121			3.33	20
Isopropylbenzene	0.0250	0.0243	0.0251	97.2	100	81.6-124			3.03	20
2-Butanone (MEK)	0.125	0.126	0.115	101	91.8	46.4-155			9.69	20
Methyl tert-butyl ether	0.0250	0.0208	0.0201	83.1	80.3	70.1-125			3.44	20
Naphthalene	0.0250	0.0232	0.0228	92.8	91.4	69.7-134			1.56	20
n-Propylbenzene	0.0250	0.0245	0.0252	97.9	101	81.9-122			2.99	20
Toluene	0.0250	0.0237	0.0241	94.7	96.6	77.9-116			1.93	20
1,2,4-Trimethylbenzene	0.0250	0.0241	0.0247	96.5	98.7	79.0-122			2.27	20
1,3,5-Trimethylbenzene	0.0250	0.0231	0.0240	92.4	95.9	81.0-123			3.73	20

QUALITY CONTROL SUMMARY

L825658-18

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3126470-1 04/05/16 11:33 • (LCSD) R3126470-2 04/05/16 11:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Xylenes, Total	0.0750	0.0733	0.0757	97.7	101	79.2-122			3.20	20
(S) Toluene-d8				*99.5*	*99.3*	*90.0-115*				
(S) Dibromofluoromethane				*89.8*	*88.6*	*79.0-121*				
(S) 4-Bromofluorobenzene				*101*	*101*	*80.1-120*				

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L826472-06 04/05/16 18:21 • (MS) R3126470-4 04/05/16 19:03 • (MSD) R3126470-5 04/05/16 19:24

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.0250	ND	0.0226	0.0237	90.6	94.9	1	58.6-133			4.65	20
n-Butylbenzene	0.0250	ND	0.0240	0.0247	96.1	98.6	1	64.8-145			2.57	20
1,2-Dichloroethane	0.0250	ND	0.0194	0.0202	77.5	80.9	1	60.7-132			4.24	20
Ethylbenzene	0.0250	ND	0.0254	0.0262	102	105	1	62.7-136			3.10	20
Isopropylbenzene	0.0250	ND	0.0245	0.0257	98.0	103	1	67.4-136			4.88	20
2-Butanone (MEK)	0.125	ND	0.0799	0.0804	63.9	64.3	1	45.0-156			0.650	20.8
Methyl tert-butyl ether	0.0250	ND	0.0199	0.0208	79.5	83.4	1	61.4-136			4.75	20
Naphthalene	0.0250	ND	0.0227	0.0235	90.7	93.9	1	61.8-143			3.46	20
n-Propylbenzene	0.0250	ND	0.0247	0.0257	98.8	103	1	63.2-139			3.85	20
Toluene	0.0250	ND	0.0240	0.0249	96.0	99.7	1	67.8-124			3.82	20
1,2,4-Trimethylbenzene	0.0250	ND	0.0243	0.0253	97.2	101	1	60.5-137			4.09	20
1,3,5-Trimethylbenzene	0.0250	ND	0.0234	0.0247	93.7	98.9	1	67.9-134			5.43	20
Xylenes, Total	0.0750	ND	0.0749	0.0774	99.9	103	1	65.6-133			3.21	20
(S) Toluene-d8					*98.7*	*99.5*		*90.0-115*				
(S) Dibromofluoromethane					*87.8*	*91.1*		*79.0-121*				
(S) 4-Bromofluorobenzene					*101*	*100*		*80.1-120*				

QUALITY CONTROL SUMMARY

L825658-01,02,03,04,05,06,07,08,09,10,11,12,13,15,16,17,19,20

Method Blank (MB)

(MB) R3125813-1 04/01/16 10:02

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
MRH (C9-C18)	0.0120		0.00754	0.100
(S) 1-Chloro-octadecane	*65.7*			*40.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3125813-2 04/01/16 10:27 • (LCSD) R3125813-3 04/01/16 10:52

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
MRH (C9-C18)	1.20	1.14	1.32	95.2	110	40.0-140			14.4	25
(S) 1-Chloro-octadecane				*61.0*	*63.1*	*40.0-140*				

Method Blank (MB)

(MB) R3126214-1 04/04/16 21:05

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
MRH (C9-C18)	U		0.00754	0.100
(S) 1-Chloro-octadecane	*108*			*40.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3126214-2 04/04/16 21:30 • (LCSD) R3126214-3 04/04/16 21:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
MRH (C9-C18)	1.20	0.962	1.00	80.1	83.5	40.0-140			4.06	25
(S) 1-Chloro-octadecane				*75.4*	*45.3*	*40.0-140*				

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
	The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [14]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold n/a Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**

Apex Companies, LLC- Portland, OR

3015 SW First Avenue
Portland, OR 97201-4707

Billing Information:
Accounts Payable- Cindi Joy Staller
3015 SW First Avenue
Portland, OR 97201-4707

Report to: Samuel Jackson

Email To: SJackson@apexcos.com; TAlfred@apexcos.com; TCochran@apexcos.com

Project Description: Andover Release Site - Quail Crossing

City/State Collected:

Phone: 503-924-4704
Fax: 503-943-6357

Client Project # E3CE-0065

Lab Project # ASHCREPOR-NUANDQUAIL

Collected by (print):

Site/Facility ID # ANDOVER QUAIL CROSSING

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X__Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 3

ESC LABORATORIES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L825658
1160

Acctnum: ASHCREPOR
Template: T107889
Prelogin: P545844
TSR: 358 - Jarred Willis
PB: 3-11-16 GM
Shipped Via: FedEx Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TPHKSLVI (MRH) 40mlAmb-HCl	V8260LL (VOCs 8260) 40mlAmb-HCl	V8260LL- Trip Blank 40mlAmb-HCl-Blk	VPHKS (LRH) 40mlAmb HCl	GRO					Rem./Contaminant	Sample # (lab only)
2001 N COLT CT	Grab	GW	—	3/21/16	1215	8	✓	✓		✓	✓						-01
2002 N COLT CT		GW		3/22/16	1145	8	✓	✓		✓	✓						-02
2004 N COLT CT		GW		3/21/16	1240	8	✓	✓		✓	✓						-03
2005 N COLT CT		GW		3/21/16	1155	8	✓	✓		✓	✓						-04
2006 N COLT CT		GW		3/22/16	1210	8	✓	✓		✓	✓						-05
HOA-1		GW			1550	8	✓	✓		✓	✓						-06
2007 N COLT CT		GW			1130	8	✓	✓		✓	✓						-07
2019 N RUGER CIR		GW			1245	8	✓	✓		✓	✓						-08
2020 N RUGER CIR		GW			1300	8	✓	✓		✓	✓						-09
2028 N RUGER CIR		GW			1315	8	✓	✓		✓	✓						-10

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:V8260LL= BTEX, 1,2-DCA, Naphthalene, 1,2,4-TMB, 1,3,5-TMB, n-butylbenzene, n-propylbenzene

pH _____ Temp _____
Flow _____ Other _____

6645 0393 5385

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Jo Bindre	3/24/16	1330	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Ho Tesso

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: 3.1 °C Bottles Received: 15 + TB

Date: 3-25-16 Time: 9:00

Condition: (lab use only) JW7 ok

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Apex Companies, LLC- Portland, OR

3015 SW First Avenue
Portland, OR 97201-4707

Billing Information:
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3015 SW First Avenue
Portland, OR 97201-4707

Report to: Samuel Jackson

Email To: SJackson@apexcos.com; TAlfred@apexcos.com; TCochran@apexcos.com

Project Description: Andover Release Site - Quail Crossing

City/State Collected:

Phone: 503-924-4704
Fax: 503-943-6357

Client Project #: E3CE-0065

Lab Project #: ASHCREPOR-NUANDQUAIL

Collected by (print):

Site/Facility ID #: ANDOVER QUAIL CROSSING

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X__Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 2 of 3

ESC LABS SCIENCES
YOUR SAMPLE ORDER
1206S Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L825658

Table #

Acctnum: ASHCREPOR
Template: T107889
Prelogin: P545844
TSR: 358 - Jarred Willis
PB: 3-11-16 Gm

Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	TPHKSLVI (MRH) 40mlAmb-HCl	V8260LL (VOCs 8260) 40mlAmb-HCl	V8260LL- Trip Blank 40mlAmb-HCl-Blk	VPHKS (LRH) 40mlAmb HCl	GRO					Rem./Contaminant	Sample # (lab only)
2032 N RUGER CIR	Grab	GW		3/22/16	1325	8	✓	✓		✓	✓						-11
2021 N RUGER CIR		GW			1340	8	✓	✓		✓	✓						-12
2025 N RUGER CIR		GW			1350	8	✓	✓		✓	✓						-13
1009 W MOUNTAIN		GW			1620	8	✓	✓		✓	✓						-14
2007 N MOUNTAIN CT		GW			0845	8	✓	✓		✓	✓						-15
2009 N MOUNTAIN CT		GW			0905	8	✓	✓		✓	✓						-16
1211 W QUAIL CROSSING		GW			1605	8	✓	✓		✓	✓						-17
TRIP BLANK	—	GW	—	—	—	1			✓								-18
TRIP BLANK	—	GW	—	—	—	10			✓								
—	—	GW															

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:V8260LL= BTEX, 1,2-DCA, Naphthalene, 1,2,4-TMB, 1,3,5-TMB, n-butylbenzene, n-propylbenzene

pH _____ Temp _____
Flow _____ Other _____

6645 0393 5385

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ ____	Condition: (lab use only)
Joe Bendis	3/24/16	1330			JW7
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.1 °C Bottles Received: 152 / TB	OK
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3-25-16 Time: 9:00	COC Seal Intact: ___Y ___N ___NA; pH Checked: ; NCF:

Chain of Custody Page 3 of 3

ESC L·A·B S·C·I·E·N·C·E·S

YOUR LAB OF CHOICE

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L825658

Table #

Acctnum: ASHCREPOR

Template: T107889

Prelogin: P545844

TSR: 358 - Jarred Willis

PB: 3-11-16

Shipped Via: FedEX Ground

Apex Companies, LLC- Portland, OR

3015 SW First Avenue
Portland, OR 97201-4707

Billing Information:

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Report to: Samuel Jackson

Email To: SJackson@apexcos.com; TAlfred@apexcos.com; TCochran@apexcos.com

Project Description: Andover Release Site - Quail Crossing

City/State Collected:

Phone: 503-924-4704
Fax: 503-943-6357

Client Project # E3CE-0065

Lab Project # ASHCREPOR-NUANDQUAIL

Collected by (print):

Site/Facility ID # ANDOVER QUAIL CROSSING

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X__Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TPHKSLVI (MRH) 40mlAmb-HCl	V8260LL (VOCs 8260) 40mlAmb-HCl	V8260LL- Trip Blank 40mlAmb-HCl-Blk	VPHKS (LRH) 40mlAmb HCl	GRO					Rem./Contaminant	Sample # (lab only)
Dup-3	Grab	GW	—	3/22/16	—	8	✓	✓		✓	✓						-19
Dup-2	↓	GW	—	3/22/16	—	8	✓	✓		✓	✓						-20
		GW															
		GW															

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:V8260LL= BTEX, 1,2-DCA, Naphthalene, 1,2,4-TMB, 1,3,5-TMB, n-butylbenzene, n-propylbenzene

pH _____ Temp _____

Flow _____ Other _____

6675 0393 5385

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ ____	Condition: (lab use only)
[signature]	3/24/16	1330			JW7 OK
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.1 °C Bottles Received: 152 / TB	COC Seal Intact: ___Y ___N ___NA
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3-25-16 Time: 9:00	pH Checked: NCF:

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

April 08, 2016

Daniel Newman
KDHE
1000 SW Jackson
Suite 410
Topeka, KS 66612

RE: Project: NUSTAR PIPELINE RLC2-008-72928
Pace Project No.: 60215639

Dear Daniel Newman:
Enclosed are the analytical results for sample(s) received by the laboratory on March 24, 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.

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

Sincerely,

Heather M. Wilson

Heather Wilson
heather.wilson@pacelabs.com
Project Manager

Enclosures

cc: LINDA BENSON, KDHE
Teresa Hattan, KDHE

REPORT OF LABORATORY ANALYSIS

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Lenexa, KS 66219
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CERTIFICATIONS

Project: NUSTAR PIPELINE RLC2-008-72928
Pace Project No.: 60215639

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

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SAMPLE SUMMARY

Project: NUSTAR PIPELINE RLC2-008-72928
Pace Project No.: 60215639

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60215639001	**MW-1**	Water	03/23/16 11:58	03/24/16 16:25
60215639002	**MW-3**	Water	03/23/16 10:23	03/24/16 16:25
60215639003	**MW-8**	Water	03/23/16 11:05	03/24/16 16:25
60215639004	**MW-10**	Water	03/23/16 09:48	03/24/16 16:25
60215639005	**TRIP BLANK**	Water	03/23/16 12:00	03/24/16 16:25

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SAMPLE ANALYTE COUNT

Project: NUSTAR PIPELINE RLC2-008-72928
Pace Project No.: 60215639

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60215639001	MW-1	EPA 8015C MOD	AJM	2
		EPA 5030B/8260	PGH	69
		EPA 8260/OA1	JDH	5
		EPA 8260	JKL	5
60215639002	MW-3	EPA 8015C MOD	AJM	2
		EPA 5030B/8260	PGH	69
		EPA 8260/OA1	JDH	5
		EPA 8260	JKL	4
60215639003	MW-8	EPA 8015C MOD	AJM	2
		EPA 5030B/8260	PGH	69
		EPA 8260/OA1	JDH	5
		EPA 8260	JKL	4
60215639004	MW-10	EPA 8015C MOD	AJM	2
		EPA 5030B/8260	PGH	69
		EPA 8260/OA1	JDH	5
		EPA 8260	JKL	4
60215639005	TRIP BLANK	EPA 5030B/8260	PGH	69

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Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: NUSTAR PIPELINE RLC2-008-72928
Pace Project No.: 60215639

Sample: MW-1 **Lab ID: 60215639001** Collected: 03/23/16 11:58 Received: 03/24/16 16:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015 MOD KS TPH	Analytical Method: EPA 8015C MOD Preparation Method: EPA 3510C								
MRH (C9-C18)	**5.7**	mg/L	0.060	0.030	1	04/04/16 00:00	04/05/16 18:54		
Surrogates									
1-Chloro-octadecane (S)	89	%	40-140		1	04/04/16 00:00	04/05/16 18:54	3386-33-2	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	250	47.0	25		04/01/16 18:58	67-64-1	
Benzene	**730**	ug/L	25.0	1.5	25		04/01/16 18:58	71-43-2	
Bromobenzene	ND	ug/L	25.0	2.5	25		04/01/16 18:58	108-86-1	
Bromochloromethane	ND	ug/L	25.0	3.8	25		04/01/16 18:58	74-97-5	
Bromodichloromethane	ND	ug/L	25.0	4.8	25		04/01/16 18:58	75-27-4	
Bromoform	ND	ug/L	25.0	1.8	25		04/01/16 18:58	75-25-2	
Bromomethane	ND	ug/L	125	4.0	25		04/01/16 18:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	250	14.8	25		04/01/16 18:58	78-93-3	
n-Butylbenzene	**19.0J**	ug/L	25.0	2.5	25		04/01/16 18:58	104-51-8	
sec-Butylbenzene	**2.5J**	ug/L	25.0	1.2	25		04/01/16 18:58	135-98-8	
tert-Butylbenzene	ND	ug/L	25.0	8.5	25		04/01/16 18:58	98-06-6	
Carbon disulfide	ND	ug/L	125	3.0	25		04/01/16 18:58	75-15-0	
Carbon tetrachloride	ND	ug/L	25.0	4.5	25		04/01/16 18:58	56-23-5	
Chlorobenzene	ND	ug/L	25.0	5.2	25		04/01/16 18:58	108-90-7	
Chloroethane	ND	ug/L	25.0	3.8	25		04/01/16 18:58	75-00-3	
Chloroform	ND	ug/L	25.0	3.5	25		04/01/16 18:58	67-66-3	
Chloromethane	ND	ug/L	25.0	2.0	25		04/01/16 18:58	74-87-3	L3
2-Chlorotoluene	ND	ug/L	25.0	3.0	25		04/01/16 18:58	95-49-8	
4-Chlorotoluene	ND	ug/L	25.0	3.5	25		04/01/16 18:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	62.5	14.8	25		04/01/16 18:58	96-12-8	
Dibromochloromethane	ND	ug/L	25.0	5.2	25		04/01/16 18:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	25.0	4.2	25		04/01/16 18:58	106-93-4	
Dibromomethane	ND	ug/L	25.0	4.5	25		04/01/16 18:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	25.0	1.2	25		04/01/16 18:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	25.0	1.8	25		04/01/16 18:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	25.0	1.5	25		04/01/16 18:58	106-46-7	
Dichlorodifluoromethane	ND	ug/L	25.0	5.2	25		04/01/16 18:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	25.0	1.2	25		04/01/16 18:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	25.0	3.0	25		04/01/16 18:58	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	25.0	7.0	25		04/01/16 18:58	540-59-0	
1,1-Dichloroethene	ND	ug/L	25.0	5.0	25		04/01/16 18:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	25.0	2.0	25		04/01/16 18:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	25.0	5.0	25		04/01/16 18:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	25.0	4.0	25		04/01/16 18:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	25.0	4.2	25		04/01/16 18:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	25.0	4.8	25		04/01/16 18:58	594-20-7	
1,1-Dichloropropene	ND	ug/L	25.0	2.2	25		04/01/16 18:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	25.0	3.5	25		04/01/16 18:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	25.0	3.0	25		04/01/16 18:58	10061-02-6	
Ethylbenzene	**197**	ug/L	25.0	4.5	25		04/01/16 18:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	25.0	4.5	25		04/01/16 18:58	87-68-3	

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www.pacelabs.com

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

ANALYTICAL RESULTS

Project: NUSTAR PIPELINE RLC2-008-72928
Pace Project No.: 60215639

Sample: MW-1 **Lab ID: 60215639001** Collected: 03/23/16 11:58 Received: 03/24/16 16:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
2-Hexanone	ND	ug/L	250	29.8	25		04/01/16 18:58	591-78-6	
Isopropylbenzene (Cumene)	**8.5J**	ug/L	25.0	1.8	25		04/01/16 18:58	98-82-8	
p-Isopropyltoluene	**3.0J**	ug/L	25.0	2.5	25		04/01/16 18:58	99-87-6	
Methylene chloride	**12.7J**	ug/L	25.0	3.8	25		04/01/16 18:58	75-09-2	B
4-Methyl-2-pentanone (MIBK)	**13.6J**	ug/L	250	10.5	25		04/01/16 18:58	108-10-1	
Methyl-tert-butyl ether	**13.7J**	ug/L	25.0	1.5	25		04/01/16 18:58	1634-04-4	
Naphthalene	**68.0J**	ug/L	250	12.5	25		04/01/16 18:58	91-20-3	
n-Propylbenzene	**25.1**	ug/L	25.0	2.5	25		04/01/16 18:58	103-65-1	
Styrene	ND	ug/L	25.0	3.0	25		04/01/16 18:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	25.0	3.8	25		04/01/16 18:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	25.0	3.8	25		04/01/16 18:58	79-34-5	
Tetrachloroethene	ND	ug/L	25.0	2.5	25		04/01/16 18:58	127-18-4	
Toluene	**406**	ug/L	25.0	4.2	25		04/01/16 18:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	25.0	3.0	25		04/01/16 18:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	25.0	2.5	25		04/01/16 18:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	25.0	2.8	25		04/01/16 18:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	25.0	5.0	25		04/01/16 18:58	79-00-5	
Trichloroethene	ND	ug/L	25.0	4.2	25		04/01/16 18:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	25.0	8.5	25		04/01/16 18:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	62.5	4.8	25		04/01/16 18:58	96-18-4	
1,2,4-Trimethylbenzene	**462**	ug/L	25.0	2.2	25		04/01/16 18:58	95-63-6	
1,3,5-Trimethylbenzene	**168**	ug/L	25.0	2.5	25		04/01/16 18:58	108-67-8	
Vinyl chloride	ND	ug/L	25.0	3.2	25		04/01/16 18:58	75-01-4	
Xylene (Total)	**2000**	ug/L	75.0	10.5	25		04/01/16 18:58	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	77-130		25		04/01/16 18:58	460-00-4	
1,2-Dichloroethane-d4 (S)	85	%	81-127		25		04/01/16 18:58	17060-07-0	
Toluene-d8 (S)	98	%	80-120		25		04/01/16 18:58	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	25		04/01/16 18:58		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1								
Gasoline Range Organics	**16.7**	mg/L	12.5	2.5	25		04/01/16 16:10		
Surrogates									
Toluene-d8 (S)	102	%	80-120		25		04/01/16 16:10	2037-26-5	
4-Bromofluorobenzene (S)	98	%	77-130		25		04/01/16 16:10	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	81-127		25		04/01/16 16:10	17060-07-0	
Preservation pH	**1.0**		0.10	0.10	25		04/01/16 16:10		
8260/KS TPH Water	Analytical Method: EPA 8260								
LRH (C5-C8)	**2.9**	mg/L	1.2	0.25	25		04/01/16 13:30		
Surrogates									
Toluene-d8 (S)	100	%	80-120		25		04/01/16 13:30	2037-26-5	
4-Bromofluorobenzene (S)	98	%	80-120		25		04/01/16 13:30	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	80-120		25		04/01/16 13:30	17060-07-0	
Preservation pH	**1.0**		0.10	0.10	25		04/01/16 13:30		

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ANALYTICAL RESULTS

Project: NUSTAR PIPELINE RLC2-008-72928
Pace Project No.: 60215639

Sample: MW-3 **Lab ID: 60215639002** Collected: 03/23/16 10:23 Received: 03/24/16 16:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015 MOD KS TPH	Analytical Method: EPA 8015C MOD Preparation Method: EPA 3510C								
MRH (C9-C18)	**0.56**	mg/L	0.060	0.030	1	04/04/16 00:00	04/05/16 19:02		
Surrogates									
1-Chloro-octadecane (S)	73	%	40-140		1	04/04/16 00:00	04/05/16 19:02	3386-33-2	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**106**	ug/L	50.0	9.4	5		04/01/16 19:12	67-64-1	
Benzene	**346**	ug/L	5.0	0.30	5		04/01/16 19:12	71-43-2	
Bromobenzene	ND	ug/L	5.0	0.50	5		04/01/16 19:12	108-86-1	
Bromochloromethane	ND	ug/L	5.0	0.75	5		04/01/16 19:12	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	0.95	5		04/01/16 19:12	75-27-4	
Bromoform	ND	ug/L	5.0	0.35	5		04/01/16 19:12	75-25-2	
Bromomethane	ND	ug/L	25.0	0.80	5		04/01/16 19:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	50.0	3.0	5		04/01/16 19:12	78-93-3	
n-Butylbenzene	**1.6J**	ug/L	5.0	0.50	5		04/01/16 19:12	104-51-8	
sec-Butylbenzene	**1.1J**	ug/L	5.0	0.25	5		04/01/16 19:12	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1.7	5		04/01/16 19:12	98-06-6	
Carbon disulfide	ND	ug/L	25.0	0.60	5		04/01/16 19:12	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	0.90	5		04/01/16 19:12	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.0	5		04/01/16 19:12	108-90-7	
Chloroethane	ND	ug/L	5.0	0.75	5		04/01/16 19:12	75-00-3	
Chloroform	ND	ug/L	5.0	0.70	5		04/01/16 19:12	67-66-3	
Chloromethane	ND	ug/L	5.0	0.40	5		04/01/16 19:12	74-87-3	L3
2-Chlorotoluene	ND	ug/L	5.0	0.60	5		04/01/16 19:12	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	0.70	5		04/01/16 19:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	12.5	3.0	5		04/01/16 19:12	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.0	5		04/01/16 19:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	0.85	5		04/01/16 19:12	106-93-4	
Dibromomethane	ND	ug/L	5.0	0.90	5		04/01/16 19:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.25	5		04/01/16 19:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	0.35	5		04/01/16 19:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	0.30	5		04/01/16 19:12	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1.0	5		04/01/16 19:12	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	0.25	5		04/01/16 19:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	0.60	5		04/01/16 19:12	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	1.4	5		04/01/16 19:12	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	1.0	5		04/01/16 19:12	75-35-4	
cis-1,2-Dichloroethene	**0.88J**	ug/L	5.0	0.40	5		04/01/16 19:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1.0	5		04/01/16 19:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	0.80	5		04/01/16 19:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	0.85	5		04/01/16 19:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	0.95	5		04/01/16 19:12	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	0.45	5		04/01/16 19:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	0.70	5		04/01/16 19:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	0.60	5		04/01/16 19:12	10061-02-6	
Ethylbenzene	**227**	ug/L	5.0	0.90	5		04/01/16 19:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	0.90	5		04/01/16 19:12	87-68-3	

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ANALYTICAL RESULTS

Project: NUSTAR PIPELINE RLC2-008-72928
Pace Project No.: 60215639

Sample: MW-3 **Lab ID: 60215639002** Collected: 03/23/16 10:23 Received: 03/24/16 16:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
2-Hexanone	ND	ug/L	50.0	6.0	5		04/01/16 19:12	591-78-6	
Isopropylbenzene (Cumene)	**9.9**	ug/L	5.0	0.35	5		04/01/16 19:12	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	0.50	5		04/01/16 19:12	99-87-6	
Methylene chloride	**2.5J**	ug/L	5.0	0.75	5		04/01/16 19:12	75-09-2	B
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50.0	2.1	5		04/01/16 19:12	108-10-1	
Methyl-tert-butyl ether	**0.44J**	ug/L	5.0	0.30	5		04/01/16 19:12	1634-04-4	
Naphthalene	**19.8J**	ug/L	50.0	2.5	5		04/01/16 19:12	91-20-3	
n-Propylbenzene	**24.6**	ug/L	5.0	0.50	5		04/01/16 19:12	103-65-1	
Styrene	ND	ug/L	5.0	0.60	5		04/01/16 19:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.75	5		04/01/16 19:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	0.75	5		04/01/16 19:12	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	0.50	5		04/01/16 19:12	127-18-4	
Toluene	**2.6J**	ug/L	5.0	0.85	5		04/01/16 19:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	0.60	5		04/01/16 19:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	0.50	5		04/01/16 19:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	0.55	5		04/01/16 19:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1.0	5		04/01/16 19:12	79-00-5	
Trichloroethene	ND	ug/L	5.0	0.85	5		04/01/16 19:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1.7	5		04/01/16 19:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	12.5	0.95	5		04/01/16 19:12	96-18-4	
1,2,4-Trimethylbenzene	**33.3**	ug/L	5.0	0.45	5		04/01/16 19:12	95-63-6	
1,3,5-Trimethylbenzene	**2.8J**	ug/L	5.0	0.50	5		04/01/16 19:12	108-67-8	
Vinyl chloride	ND	ug/L	5.0	0.65	5		04/01/16 19:12	75-01-4	
Xylene (Total)	ND	ug/L	15.0	2.1	5		04/01/16 19:12	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	77-130		5		04/01/16 19:12	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	81-127		5		04/01/16 19:12	17060-07-0	
Toluene-d8 (S)	100	%	80-120		5		04/01/16 19:12	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	5		04/01/16 19:12		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1								
Gasoline Range Organics	**1.9J**	mg/L	2.5	0.50	5		04/01/16 16:25		
Surrogates									
Toluene-d8 (S)	99	%	80-120		5		04/01/16 16:25	2037-26-5	
4-Bromofluorobenzene (S)	100	%	77-130		5		04/01/16 16:25	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	81-127		5		04/01/16 16:25	17060-07-0	
Preservation pH	**1.0**		0.10	0.10	5		04/01/16 16:25		
8260/KS TPH Water	Analytical Method: EPA 8260								
LRH (C5-C8)	**1.4**	mg/L	0.25	0.050	5		04/01/16 13:44		
Surrogates									
Toluene-d8 (S)	101	%	80-120		5		04/01/16 13:44	2037-26-5	
4-Bromofluorobenzene (S)	97	%	80-120		5		04/01/16 13:44	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120		5		04/01/16 13:44	17060-07-0	

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ANALYTICAL RESULTS

Project: NUSTAR PIPELINE RLC2-008-72928
Pace Project No.: 60215639

Sample: MW-8 **Lab ID: 60215639003** Collected: 03/23/16 11:05 Received: 03/24/16 16:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015 MOD KS TPH	Analytical Method: EPA 8015C MOD Preparation Method: EPA 3510C								
MRH (C9-C18)	ND	mg/L	0.060	0.030	1	04/04/16 00:00	04/05/16 19:10		
Surrogates									
1-Chloro-octadecane (S)	57	%	40-140		1	04/04/16 00:00	04/05/16 19:10	3386-33-2	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		03/29/16 05:15	67-64-1	
Benzene	**0.48J**	ug/L	1.0	0.060	1		03/29/16 05:15	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.10	1		03/29/16 05:15	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.15	1		03/29/16 05:15	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		03/29/16 05:15	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		03/29/16 05:15	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		03/29/16 05:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		03/29/16 05:15	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.10	1		03/29/16 05:15	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.050	1		03/29/16 05:15	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.34	1		03/29/16 05:15	98-06-6	
Carbon disulfide	ND	ug/L	5.0	0.12	1		03/29/16 05:15	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		03/29/16 05:15	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		03/29/16 05:15	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		03/29/16 05:15	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		03/29/16 05:15	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		03/29/16 05:15	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.12	1		03/29/16 05:15	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.14	1		03/29/16 05:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	0.59	1		03/29/16 05:15	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		03/29/16 05:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.17	1		03/29/16 05:15	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.18	1		03/29/16 05:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.050	1		03/29/16 05:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.070	1		03/29/16 05:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.060	1		03/29/16 05:15	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		03/29/16 05:15	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		03/29/16 05:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		03/29/16 05:15	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	0.28	1		03/29/16 05:15	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		03/29/16 05:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		03/29/16 05:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		03/29/16 05:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		03/29/16 05:15	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.17	1		03/29/16 05:15	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.19	1		03/29/16 05:15	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.090	1		03/29/16 05:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		03/29/16 05:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		03/29/16 05:15	10061-02-6	
Ethylbenzene	**0.94J**	ug/L	1.0	0.18	1		03/29/16 05:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.18	1		03/29/16 05:15	87-68-3	

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ANALYTICAL RESULTS

Project: NUSTAR PIPELINE RLC2-008-72928
Pace Project No.: 60215639

Sample: MW-8 **Lab ID: 60215639003** Collected: 03/23/16 11:05 Received: 03/24/16 16:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
2-Hexanone	ND	ug/L	10.0	1.2	1		03/29/16 05:15	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.070	1		03/29/16 05:15	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.10	1		03/29/16 05:15	99-87-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		03/29/16 05:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		03/29/16 05:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.060	1		03/29/16 05:15	1634-04-4	
Naphthalene	ND	ug/L	10.0	0.50	1		03/29/16 05:15	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.10	1		03/29/16 05:15	103-65-1	
Styrene	ND	ug/L	1.0	0.12	1		03/29/16 05:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		03/29/16 05:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		03/29/16 05:15	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		03/29/16 05:15	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		03/29/16 05:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.12	1		03/29/16 05:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.10	1		03/29/16 05:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		03/29/16 05:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		03/29/16 05:15	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		03/29/16 05:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.34	1		03/29/16 05:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.19	1		03/29/16 05:15	96-18-4	L3
1,2,4-Trimethylbenzene	**0.15J**	ug/L	1.0	0.090	1		03/29/16 05:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.10	1		03/29/16 05:15	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.13	1		03/29/16 05:15	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		03/29/16 05:15	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	77-130		1		03/29/16 05:15	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	81-127		1		03/29/16 05:15	17060-07-0	
Toluene-d8 (S)	105	%	80-120		1		03/29/16 05:15	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		03/29/16 05:15		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1								
Gasoline Range Organics	ND	mg/L	0.50	0.10	1		04/01/16 16:40		
Surrogates									
Toluene-d8 (S)	102	%	80-120		1		04/01/16 16:40	2037-26-5	
4-Bromofluorobenzene (S)	105	%	77-130		1		04/01/16 16:40	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	81-127		1		04/01/16 16:40	17060-07-0	
Preservation pH	**1.0**		0.10	0.10	1		04/01/16 16:40		
8260/KS TPH Water	Analytical Method: EPA 8260								
LRH (C5-C8)	ND	mg/L	0.050	0.010	1		04/01/16 13:59		
Surrogates									
Toluene-d8 (S)	102	%	80-120		1		04/01/16 13:59	2037-26-5	
4-Bromofluorobenzene (S)	98	%	80-120		1		04/01/16 13:59	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	80-120		1		04/01/16 13:59	17060-07-0	

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ANALYTICAL RESULTS

Project: NUSTAR PIPELINE RLC2-008-72928
Pace Project No.: 60215639

Sample: MW-10 **Lab ID: 60215639004** Collected: 03/23/16 09:48 Received: 03/24/16 16:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015 MOD KS TPH	Analytical Method: EPA 8015C MOD Preparation Method: EPA 3510C								
MRH (C9-C18)	ND	mg/L	0.060	0.030	1	04/04/16 00:00	04/05/16 19:18		
Surrogates									
1-Chloro-octadecane (S)	67	%	40-140		1	04/04/16 00:00	04/05/16 19:18	3386-33-2	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**13.2**	ug/L	10.0	1.9	1		04/01/16 18:44	67-64-1	
Benzene	**0.79J**	ug/L	1.0	0.060	1		04/01/16 18:44	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.10	1		04/01/16 18:44	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.15	1		04/01/16 18:44	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		04/01/16 18:44	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		04/01/16 18:44	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		04/01/16 18:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		04/01/16 18:44	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.10	1		04/01/16 18:44	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.050	1		04/01/16 18:44	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.34	1		04/01/16 18:44	98-06-6	
Carbon disulfide	ND	ug/L	5.0	0.12	1		04/01/16 18:44	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		04/01/16 18:44	56-23-5	
Chlorobenzene	**0.48J**	ug/L	1.0	0.21	1		04/01/16 18:44	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		04/01/16 18:44	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		04/01/16 18:44	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		04/01/16 18:44	74-87-3	L3
2-Chlorotoluene	ND	ug/L	1.0	0.12	1		04/01/16 18:44	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.14	1		04/01/16 18:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	0.59	1		04/01/16 18:44	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		04/01/16 18:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.17	1		04/01/16 18:44	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.18	1		04/01/16 18:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.050	1		04/01/16 18:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.070	1		04/01/16 18:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.060	1		04/01/16 18:44	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		04/01/16 18:44	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		04/01/16 18:44	75-34-3	
1,2-Dichloroethane	**0.23J**	ug/L	1.0	0.12	1		04/01/16 18:44	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	0.28	1		04/01/16 18:44	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		04/01/16 18:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		04/01/16 18:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		04/01/16 18:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		04/01/16 18:44	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.17	1		04/01/16 18:44	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.19	1		04/01/16 18:44	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.090	1		04/01/16 18:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		04/01/16 18:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		04/01/16 18:44	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		04/01/16 18:44	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.18	1		04/01/16 18:44	87-68-3	

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ANALYTICAL RESULTS

Project: NUSTAR PIPELINE RLC2-008-72928
Pace Project No.: 60215639

Sample: MW-10 **Lab ID: 60215639004** Collected: 03/23/16 09:48 Received: 03/24/16 16:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
2-Hexanone	ND	ug/L	10.0	1.2	1		04/01/16 18:44	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.070	1		04/01/16 18:44	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.10	1		04/01/16 18:44	99-87-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		04/01/16 18:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		04/01/16 18:44	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.060	1		04/01/16 18:44	1634-04-4	
Naphthalene	ND	ug/L	10.0	0.50	1		04/01/16 18:44	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.10	1		04/01/16 18:44	103-65-1	
Styrene	ND	ug/L	1.0	0.12	1		04/01/16 18:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		04/01/16 18:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		04/01/16 18:44	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		04/01/16 18:44	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		04/01/16 18:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.12	1		04/01/16 18:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.10	1		04/01/16 18:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		04/01/16 18:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		04/01/16 18:44	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		04/01/16 18:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.34	1		04/01/16 18:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.19	1		04/01/16 18:44	96-18-4	
1,2,4-Trimethylbenzene	**0.21J**	ug/L	1.0	0.090	1		04/01/16 18:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.10	1		04/01/16 18:44	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.13	1		04/01/16 18:44	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		04/01/16 18:44	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	77-130		1		04/01/16 18:44	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	81-127		1		04/01/16 18:44	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		04/01/16 18:44	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		04/01/16 18:44		
8260/OA1 UST, Water	Analytical Method: EPA 8260/OA1								
Gasoline Range Organics	ND	mg/L	0.50	0.10	1		04/01/16 16:55		
Surrogates									
Toluene-d8 (S)	100	%	80-120		1		04/01/16 16:55	2037-26-5	
4-Bromofluorobenzene (S)	103	%	77-130		1		04/01/16 16:55	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	81-127		1		04/01/16 16:55	17060-07-0	
Preservation pH	**1.0**		0.10	0.10	1		04/01/16 16:55		
8260/KS TPH Water	Analytical Method: EPA 8260								
LRH (C5-C8)	**0.025J**	mg/L	0.050	0.010	1		04/01/16 14:13		
Surrogates									
Toluene-d8 (S)	99	%	80-120		1		04/01/16 14:13	2037-26-5	
4-Bromofluorobenzene (S)	100	%	80-120		1		04/01/16 14:13	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	80-120		1		04/01/16 14:13	17060-07-0	

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ANALYTICAL RESULTS

Project: NUSTAR PIPELINE RLC2-008-72928
Pace Project No.: 60215639

Sample: TRIP BLANK **Lab ID: 60215639005** Collected: 03/23/16 12:00 Received: 03/24/16 16:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		03/29/16 02:38	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		03/29/16 02:38	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.10	1		03/29/16 02:38	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.15	1		03/29/16 02:38	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		03/29/16 02:38	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		03/29/16 02:38	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		03/29/16 02:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		03/29/16 02:38	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.10	1		03/29/16 02:38	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.050	1		03/29/16 02:38	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.34	1		03/29/16 02:38	98-06-6	
Carbon disulfide	ND	ug/L	5.0	0.12	1		03/29/16 02:38	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		03/29/16 02:38	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		03/29/16 02:38	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		03/29/16 02:38	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		03/29/16 02:38	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		03/29/16 02:38	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.12	1		03/29/16 02:38	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.14	1		03/29/16 02:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	0.59	1		03/29/16 02:38	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		03/29/16 02:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.17	1		03/29/16 02:38	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.18	1		03/29/16 02:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.050	1		03/29/16 02:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.070	1		03/29/16 02:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.060	1		03/29/16 02:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		03/29/16 02:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		03/29/16 02:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		03/29/16 02:38	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	0.28	1		03/29/16 02:38	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		03/29/16 02:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		03/29/16 02:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		03/29/16 02:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		03/29/16 02:38	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.17	1		03/29/16 02:38	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.19	1		03/29/16 02:38	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.090	1		03/29/16 02:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		03/29/16 02:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		03/29/16 02:38	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		03/29/16 02:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.18	1		03/29/16 02:38	87-68-3	
2-Hexanone	ND	ug/L	10.0	1.2	1		03/29/16 02:38	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.070	1		03/29/16 02:38	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.10	1		03/29/16 02:38	99-87-6	
Methylene chloride	**0.27J**	ug/L	1.0	0.15	1		03/29/16 02:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		03/29/16 02:38	108-10-1	

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ANALYTICAL RESULTS

Project: NUSTAR PIPELINE RLC2-008-72928
Pace Project No.: 60215639

Sample: TRIP BLANK **Lab ID: 60215639005** Collected: 03/23/16 12:00 Received: 03/24/16 16:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Methyl-tert-butyl ether	ND	ug/L	1.0	0.060	1		03/29/16 02:38	1634-04-4	
Naphthalene	ND	ug/L	10.0	0.50	1		03/29/16 02:38	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.10	1		03/29/16 02:38	103-65-1	
Styrene	ND	ug/L	1.0	0.12	1		03/29/16 02:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		03/29/16 02:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		03/29/16 02:38	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		03/29/16 02:38	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		03/29/16 02:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.12	1		03/29/16 02:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.10	1		03/29/16 02:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		03/29/16 02:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		03/29/16 02:38	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		03/29/16 02:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.34	1		03/29/16 02:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.19	1		03/29/16 02:38	96-18-4	L3
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.090	1		03/29/16 02:38	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.10	1		03/29/16 02:38	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.13	1		03/29/16 02:38	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		03/29/16 02:38	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	77-130		1		03/29/16 02:38	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	81-127		1		03/29/16 02:38	17060-07-0	
Toluene-d8 (S)	105	%	80-120		1		03/29/16 02:38	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		03/29/16 02:38		

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QUALITY CONTROL DATA

Project: NUSTAR PIPELINE RLC2-008-72928
Pace Project No.: 60215639

QC Batch: MSV/74899 | Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 | Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60215639003, 60215639005

METHOD BLANK: 1731821 | Matrix: Water
Associated Lab Samples: 60215639003, 60215639005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	0.15	03/29/16 02:23	
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	03/29/16 02:23	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	03/29/16 02:23	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	03/29/16 02:23	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	03/29/16 02:23	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	03/29/16 02:23	
1,1-Dichloropropene	ug/L	ND	1.0	0.090	03/29/16 02:23	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	0.12	03/29/16 02:23	
1,2,3-Trichloropropane	ug/L	ND	2.5	0.19	03/29/16 02:23	
1,2,4-Trichlorobenzene	ug/L	0.15J	1.0	0.10	03/29/16 02:23	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	0.090	03/29/16 02:23	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	0.59	03/29/16 02:23	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	0.17	03/29/16 02:23	
1,2-Dichlorobenzene	ug/L	ND	1.0	0.050	03/29/16 02:23	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	03/29/16 02:23	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	0.28	03/29/16 02:23	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	03/29/16 02:23	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	0.10	03/29/16 02:23	
1,3-Dichlorobenzene	ug/L	ND	1.0	0.070	03/29/16 02:23	
1,3-Dichloropropane	ug/L	ND	1.0	0.17	03/29/16 02:23	
1,4-Dichlorobenzene	ug/L	ND	1.0	0.060	03/29/16 02:23	
2,2-Dichloropropane	ug/L	ND	1.0	0.19	03/29/16 02:23	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	03/29/16 02:23	
2-Chlorotoluene	ug/L	ND	1.0	0.12	03/29/16 02:23	
2-Hexanone	ug/L	ND	10.0	1.2	03/29/16 02:23	
4-Chlorotoluene	ug/L	ND	1.0	0.14	03/29/16 02:23	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	03/29/16 02:23	
Acetone	ug/L	ND	10.0	1.9	03/29/16 02:23	
Benzene	ug/L	ND	1.0	0.060	03/29/16 02:23	
Bromobenzene	ug/L	ND	1.0	0.10	03/29/16 02:23	
Bromochloromethane	ug/L	ND	1.0	0.15	03/29/16 02:23	
Bromodichloromethane	ug/L	ND	1.0	0.19	03/29/16 02:23	
Bromoform	ug/L	ND	1.0	0.070	03/29/16 02:23	
Bromomethane	ug/L	ND	5.0	0.16	03/29/16 02:23	
Carbon disulfide	ug/L	ND	5.0	0.12	03/29/16 02:23	
Carbon tetrachloride	ug/L	ND	1.0	0.18	03/29/16 02:23	
Chlorobenzene	ug/L	ND	1.0	0.21	03/29/16 02:23	
Chloroethane	ug/L	ND	1.0	0.15	03/29/16 02:23	
Chloroform	ug/L	ND	1.0	0.14	03/29/16 02:23	
Chloromethane	ug/L	ND	1.0	0.080	03/29/16 02:23	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	03/29/16 02:23	

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QUALITY CONTROL DATA

Project: NUSTAR PIPELINE RLC2-008-72928
Pace Project No.: 60215639

METHOD BLANK: 1731821 Matrix: Water
Associated Lab Samples: 60215639003, 60215639005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	03/29/16 02:23	
Dibromochloromethane	ug/L	ND	1.0	0.21	03/29/16 02:23	
Dibromomethane	ug/L	ND	1.0	0.18	03/29/16 02:23	
Dichlorodifluoromethane	ug/L	ND	1.0	0.21	03/29/16 02:23	
Ethylbenzene	ug/L	ND	1.0	0.18	03/29/16 02:23	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	0.18	03/29/16 02:23	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	0.070	03/29/16 02:23	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.060	03/29/16 02:23	
Methylene chloride	ug/L	ND	1.0	0.15	03/29/16 02:23	
n-Butylbenzene	ug/L	ND	1.0	0.10	03/29/16 02:23	
n-Propylbenzene	ug/L	ND	1.0	0.10	03/29/16 02:23	
Naphthalene	ug/L	ND	10.0	0.50	03/29/16 02:23	
p-Isopropyltoluene	ug/L	ND	1.0	0.10	03/29/16 02:23	
sec-Butylbenzene	ug/L	ND	1.0	0.050	03/29/16 02:23	
Styrene	ug/L	ND	1.0	0.12	03/29/16 02:23	
tert-Butylbenzene	ug/L	ND	1.0	0.34	03/29/16 02:23	
Tetrachloroethene	ug/L	ND	1.0	0.10	03/29/16 02:23	
Toluene	ug/L	ND	1.0	0.17	03/29/16 02:23	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	03/29/16 02:23	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	03/29/16 02:23	
Trichloroethene	ug/L	ND	1.0	0.17	03/29/16 02:23	
Trichlorofluoromethane	ug/L	ND	1.0	0.34	03/29/16 02:23	
Vinyl chloride	ug/L	ND	1.0	0.13	03/29/16 02:23	
Xylene (Total)	ug/L	ND	3.0	0.42	03/29/16 02:23	
1,2-Dichloroethane-d4 (S)	%	108	81-127		03/29/16 02:23	
4-Bromofluorobenzene (S)	%	101	77-130		03/29/16 02:23	
Toluene-d8 (S)	%	104	80-120		03/29/16 02:23	

LABORATORY CONTROL SAMPLE: 1731822

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	22.2	111	80-112	
1,1,1-Trichloroethane	ug/L	20	20.6	103	81-116	
1,1,2,2-Tetrachloroethane	ug/L	20	22.8	114	72-117	
1,1,2-Trichloroethane	ug/L	20	21.7	108	79-108	
1,1-Dichloroethane	ug/L	20	21.6	108	83-117	
1,1-Dichloroethene	ug/L	20	17.6	88	74-114	
1,1-Dichloropropene	ug/L	20	21.5	107	80-120	
1,2,3-Trichlorobenzene	ug/L	20	21.7	109	74-124	
1,2,3-Trichloropropane	ug/L	20	24.6	123	74-120	L0
1,2,4-Trichlorobenzene	ug/L	20	20.4	102	78-120	
1,2,4-Trimethylbenzene	ug/L	20	21.3	107	82-114	
1,2-Dibromo-3-chloropropane	ug/L	20	22.6	113	73-124	
1,2-Dibromoethane (EDB)	ug/L	20	22.7	114	81-120	

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QUALITY CONTROL DATA

Project: NUSTAR PIPELINE RLC2-008-72928
Pace Project No.: 60215639

LABORATORY CONTROL SAMPLE: 1731822

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	20	22.0	110	84-117	
1,2-Dichloroethane	ug/L	20	21.5	108	72-116	
1,2-Dichloroethene (Total)	ug/L	40	42.4	106	80-120	
1,2-Dichloropropane	ug/L	20	20.3	102	80-120	
1,3,5-Trimethylbenzene	ug/L	20	22.1	110	80-120	
1,3-Dichlorobenzene	ug/L	20	21.0	105	80-120	
1,3-Dichloropropane	ug/L	20	22.1	110	80-120	
1,4-Dichlorobenzene	ug/L	20	21.5	107	80-120	
2,2-Dichloropropane	ug/L	20	17.0	85	58-132	
2-Butanone (MEK)	ug/L	100	123	123	67-129	
2-Chlorotoluene	ug/L	20	20.9	104	80-120	
2-Hexanone	ug/L	100	110	110	70-128	
4-Chlorotoluene	ug/L	20	21.0	105	80-120	
4-Methyl-2-pentanone (MIBK)	ug/L	100	106	106	80-120	
Acetone	ug/L	100	111	111	56-142	
Benzene	ug/L	20	20.1	100	79-116	
Bromobenzene	ug/L	20	20.3	101	80-120	
Bromochloromethane	ug/L	20	20.4	102	76-124	
Bromodichloromethane	ug/L	20	20.9	104	80-120	
Bromoform	ug/L	20	22.4	112	73-114	
Bromomethane	ug/L	20	18.8	94	49-153	
Carbon disulfide	ug/L	20	20.8	104	82-121	
Carbon tetrachloride	ug/L	20	20.6	103	80-116	
Chlorobenzene	ug/L	20	20.8	104	80-120	
Chloroethane	ug/L	20	15.3	77	67-124	
Chloroform	ug/L	20	21.2	106	79-120	
Chloromethane	ug/L	20	14.1	70	10-192	
cis-1,2-Dichloroethene	ug/L	20	20.9	105	80-120	
cis-1,3-Dichloropropene	ug/L	20	21.2	106	80-120	
Dibromochloromethane	ug/L	20	23.1	115	80-120	
Dibromomethane	ug/L	20	22.5	113	84-117	
Dichlorodifluoromethane	ug/L	20	28.2	141	22-167	
Ethylbenzene	ug/L	20	20.1	101	80-120	
Hexachloro-1,3-butadiene	ug/L	20	19.9	99	75-122	
Isopropylbenzene (Cumene)	ug/L	20	19.8	99	80-120	
Methyl-tert-butyl ether	ug/L	20	22.4	112	79-117	
Methylene chloride	ug/L	20	19.0	95	80-120	
n-Butylbenzene	ug/L	20	21.0	105	80-120	
n-Propylbenzene	ug/L	20	21.3	106	80-120	
Naphthalene	ug/L	20	21.3	107	74-125	
p-Isopropyltoluene	ug/L	20	21.5	107	80-120	
sec-Butylbenzene	ug/L	20	20.3	101	80-120	
Styrene	ug/L	20	20.0	100	80-120	
tert-Butylbenzene	ug/L	20	19.5	97	85-116	
Tetrachloroethene	ug/L	20	21.6	108	80-120	
Toluene	ug/L	20	21.6	108	80-120	
trans-1,2-Dichloroethene	ug/L	20	21.5	107	78-108	

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QUALITY CONTROL DATA

Project: NUSTAR PIPELINE RLC2-008-72928
Pace Project No.: 60215639

LABORATORY CONTROL SAMPLE: 1731822

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/L	20	21.5	108	85-120	
Trichloroethene	ug/L	20	19.9	100	76-114	
Trichlorofluoromethane	ug/L	20	20.7	104	78-132	
Vinyl chloride	ug/L	20	22.3	112	69-129	
Xylene (Total)	ug/L	60	59.5	99	80-120	
1,2-Dichloroethane-d4 (S)	%			109	81-127	
4-Bromofluorobenzene (S)	%			100	77-130	
Toluene-d8 (S)	%			102	80-120	

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QUALITY CONTROL DATA

Project: NUSTAR PIPELINE RLC2-008-72928
Pace Project No.: 60215639

QC Batch: MSV/75005 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60215639001, 60215639002, 60215639004

METHOD BLANK: 1734436 Matrix: Water
Associated Lab Samples: 60215639001, 60215639002, 60215639004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	0.15	04/01/16 15:37	
1,1,1-Trichloroethane	ug/L	ND	1.0	0.11	04/01/16 15:37	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	0.15	04/01/16 15:37	
1,1,2-Trichloroethane	ug/L	ND	1.0	0.20	04/01/16 15:37	
1,1-Dichloroethane	ug/L	ND	1.0	0.050	04/01/16 15:37	
1,1-Dichloroethene	ug/L	ND	1.0	0.20	04/01/16 15:37	
1,1-Dichloropropene	ug/L	ND	1.0	0.090	04/01/16 15:37	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	0.12	04/01/16 15:37	
1,2,3-Trichloropropane	ug/L	ND	2.5	0.19	04/01/16 15:37	
1,2,4-Trichlorobenzene	ug/L	0.13J	1.0	0.10	04/01/16 15:37	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	0.090	04/01/16 15:37	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	0.59	04/01/16 15:37	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	0.17	04/01/16 15:37	
1,2-Dichlorobenzene	ug/L	ND	1.0	0.050	04/01/16 15:37	
1,2-Dichloroethane	ug/L	ND	1.0	0.12	04/01/16 15:37	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	0.28	04/01/16 15:37	
1,2-Dichloropropane	ug/L	ND	1.0	0.16	04/01/16 15:37	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	0.10	04/01/16 15:37	
1,3-Dichlorobenzene	ug/L	ND	1.0	0.070	04/01/16 15:37	
1,3-Dichloropropane	ug/L	ND	1.0	0.17	04/01/16 15:37	
1,4-Dichlorobenzene	ug/L	ND	1.0	0.060	04/01/16 15:37	
2,2-Dichloropropane	ug/L	ND	1.0	0.19	04/01/16 15:37	
2-Butanone (MEK)	ug/L	ND	10.0	0.59	04/01/16 15:37	
2-Chlorotoluene	ug/L	ND	1.0	0.12	04/01/16 15:37	
2-Hexanone	ug/L	ND	10.0	1.2	04/01/16 15:37	
4-Chlorotoluene	ug/L	ND	1.0	0.14	04/01/16 15:37	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.42	04/01/16 15:37	
Acetone	ug/L	ND	10.0	1.9	04/01/16 15:37	
Benzene	ug/L	ND	1.0	0.060	04/01/16 15:37	
Bromobenzene	ug/L	ND	1.0	0.10	04/01/16 15:37	
Bromochloromethane	ug/L	ND	1.0	0.15	04/01/16 15:37	
Bromodichloromethane	ug/L	ND	1.0	0.19	04/01/16 15:37	
Bromoform	ug/L	ND	1.0	0.070	04/01/16 15:37	
Bromomethane	ug/L	ND	5.0	0.16	04/01/16 15:37	
Carbon disulfide	ug/L	ND	5.0	0.12	04/01/16 15:37	
Carbon tetrachloride	ug/L	ND	1.0	0.18	04/01/16 15:37	
Chlorobenzene	ug/L	ND	1.0	0.21	04/01/16 15:37	
Chloroethane	ug/L	ND	1.0	0.15	04/01/16 15:37	
Chloroform	ug/L	ND	1.0	0.14	04/01/16 15:37	
Chloromethane	ug/L	ND	1.0	0.080	04/01/16 15:37	
cis-1,2-Dichloroethene	ug/L	ND	1.0	0.080	04/01/16 15:37	

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QUALITY CONTROL DATA

Project: NUSTAR PIPELINE RLC2-008-72928
Pace Project No.: 60215639

METHOD BLANK: 1734436 Matrix: Water
Associated Lab Samples: 60215639001, 60215639002, 60215639004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	1.0	0.14	04/01/16 15:37	
Dibromochloromethane	ug/L	ND	1.0	0.21	04/01/16 15:37	
Dibromomethane	ug/L	ND	1.0	0.18	04/01/16 15:37	
Dichlorodifluoromethane	ug/L	ND	1.0	0.21	04/01/16 15:37	
Ethylbenzene	ug/L	ND	1.0	0.18	04/01/16 15:37	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	0.18	04/01/16 15:37	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	0.070	04/01/16 15:37	
Methyl-tert-butyl ether	ug/L	ND	1.0	0.060	04/01/16 15:37	
Methylene chloride	ug/L	0.25J	1.0	0.15	04/01/16 15:37	
n-Butylbenzene	ug/L	ND	1.0	0.10	04/01/16 15:37	
n-Propylbenzene	ug/L	ND	1.0	0.10	04/01/16 15:37	
Naphthalene	ug/L	ND	10.0	0.50	04/01/16 15:37	
p-Isopropyltoluene	ug/L	ND	1.0	0.10	04/01/16 15:37	
sec-Butylbenzene	ug/L	ND	1.0	0.050	04/01/16 15:37	
Styrene	ug/L	ND	1.0	0.12	04/01/16 15:37	
tert-Butylbenzene	ug/L	ND	1.0	0.34	04/01/16 15:37	
Tetrachloroethene	ug/L	ND	1.0	0.10	04/01/16 15:37	
Toluene	ug/L	ND	1.0	0.17	04/01/16 15:37	
trans-1,2-Dichloroethene	ug/L	ND	1.0	0.20	04/01/16 15:37	
trans-1,3-Dichloropropene	ug/L	ND	1.0	0.12	04/01/16 15:37	
Trichloroethene	ug/L	ND	1.0	0.17	04/01/16 15:37	
Trichlorofluoromethane	ug/L	ND	1.0	0.34	04/01/16 15:37	
Vinyl chloride	ug/L	ND	1.0	0.13	04/01/16 15:37	
Xylene (Total)	ug/L	ND	3.0	0.42	04/01/16 15:37	
1,2-Dichloroethane-d4 (S)	%	94	81-127		04/01/16 15:37	
4-Bromofluorobenzene (S)	%	101	77-130		04/01/16 15:37	
Toluene-d8 (S)	%	100	80-120		04/01/16 15:37	

LABORATORY CONTROL SAMPLE: 1734437

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	17.8	89	80-112	
1,1,1-Trichloroethane	ug/L	20	17.9	89	81-116	
1,1,2,2-Tetrachloroethane	ug/L	20	17.0	85	72-117	
1,1,2-Trichloroethane	ug/L	20	16.1	80	79-108	
1,1-Dichloroethane	ug/L	20	19.0	95	83-117	
1,1-Dichloroethene	ug/L	20	18.5	93	74-114	
1,1-Dichloropropene	ug/L	20	20.9	104	80-120	
1,2,3-Trichlorobenzene	ug/L	20	19.5	98	74-124	
1,2,3-Trichloropropane	ug/L	20	16.9	84	74-120	
1,2,4-Trichlorobenzene	ug/L	20	19.6	98	78-120	
1,2,4-Trimethylbenzene	ug/L	20	19.7	99	82-114	
1,2-Dibromo-3-chloropropane	ug/L	20	19.5	98	73-124	
1,2-Dibromoethane (EDB)	ug/L	20	17.9	89	81-120	

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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: NUSTAR PIPELINE RLC2-008-72928
Pace Project No.: 60215639

LABORATORY CONTROL SAMPLE: 1734437

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	20	20.5	103	84-117	
1,2-Dichloroethane	ug/L	20	17.6	88	72-116	
1,2-Dichloroethene (Total)	ug/L	40	35.6	89	80-120	
1,2-Dichloropropane	ug/L	20	18.4	92	80-120	
1,3,5-Trimethylbenzene	ug/L	20	19.8	99	80-120	
1,3-Dichlorobenzene	ug/L	20	19.5	97	80-120	
1,3-Dichloropropane	ug/L	20	16.8	84	80-120	
1,4-Dichlorobenzene	ug/L	20	19.2	96	80-120	
2,2-Dichloropropane	ug/L	20	18.3	91	58-132	
2-Butanone (MEK)	ug/L	100	96.3	96	67-129	
2-Chlorotoluene	ug/L	20	19.1	96	80-120	
2-Hexanone	ug/L	100	93.8	94	70-128	
4-Chlorotoluene	ug/L	20	19.4	97	80-120	
4-Methyl-2-pentanone (MIBK)	ug/L	100	102	102	80-120	
Acetone	ug/L	100	116	116	56-142	
Benzene	ug/L	20	19.9	99	79-116	
Bromobenzene	ug/L	20	17.2	86	80-120	
Bromochloromethane	ug/L	20	19.9	99	76-124	
Bromodichloromethane	ug/L	20	17.6	88	80-120	
Bromoform	ug/L	20	17.0	85	73-114	
Bromomethane	ug/L	20	23.0	115	49-153	
Carbon disulfide	ug/L	20	21.8	109	82-121	
Carbon tetrachloride	ug/L	20	18.2	91	80-116	
Chlorobenzene	ug/L	20	18.8	94	80-120	
Chloroethane	ug/L	20	22.8	114	67-124	
Chloroform	ug/L	20	17.2	86	79-120	
Chloromethane	ug/L	20	41.8	209	10-192	L0
cis-1,2-Dichloroethene	ug/L	20	17.9	90	80-120	
cis-1,3-Dichloropropene	ug/L	20	18.5	93	80-120	
Dibromochloromethane	ug/L	20	17.1	86	80-120	
Dibromomethane	ug/L	20	18.4	92	84-117	
Dichlorodifluoromethane	ug/L	20	30.7	153	22-167	
Ethylbenzene	ug/L	20	19.6	98	80-120	
Hexachloro-1,3-butadiene	ug/L	20	18.8	94	75-122	
Isopropylbenzene (Cumene)	ug/L	20	19.4	97	80-120	
Methyl-tert-butyl ether	ug/L	20	18.3	92	79-117	
Methylene chloride	ug/L	20	18.4	92	80-120	
n-Butylbenzene	ug/L	20	19.5	98	80-120	
n-Propylbenzene	ug/L	20	19.6	98	80-120	
Naphthalene	ug/L	20	19.0	95	74-125	
p-Isopropyltoluene	ug/L	20	19.4	97	80-120	
sec-Butylbenzene	ug/L	20	19.5	98	80-120	
Styrene	ug/L	20	20.4	102	80-120	
tert-Butylbenzene	ug/L	20	22.5	112	85-116	
Tetrachloroethene	ug/L	20	17.6	88	80-120	
Toluene	ug/L	20	19.2	96	80-120	
trans-1,2-Dichloroethene	ug/L	20	17.6	88	78-108	

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QUALITY CONTROL DATA

Project: NUSTAR PIPELINE RLC2-008-72928
Pace Project No.: 60215639

LABORATORY CONTROL SAMPLE: 1734437

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,3-Dichloropropene	ug/L	20	17.0	85	85-120	
Trichloroethene	ug/L	20	17.0	85	76-114	
Trichlorofluoromethane	ug/L	20	20.5	103	78-132	
Vinyl chloride	ug/L	20	22.9	114	69-129	
Xylene (Total)	ug/L	60	60.4	101	80-120	
1,2-Dichloroethane-d4 (S)	%			92	81-127	
4-Bromofluorobenzene (S)	%			97	77-130	
Toluene-d8 (S)	%			95	80-120	

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QUALITY CONTROL DATA

Project: NUSTAR PIPELINE RLC2-008-72928
Pace Project No.: 60215639

QC Batch: MSV/75010 Analysis Method: EPA 8260/OA1
QC Batch Method: EPA 8260/OA1 Analysis Description: 8260/OA1 UST-WATER
Associated Lab Samples: 60215639001, 60215639002, 60215639003, 60215639004

METHOD BLANK: 1734519 Matrix: Water
Associated Lab Samples: 60215639001, 60215639002, 60215639003, 60215639004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Gasoline Range Organics	mg/L	ND	0.50	0.10	04/01/16 12:25	
1,2-Dichloroethane-d4 (S)	%	98	81-127		04/01/16 12:25	
4-Bromofluorobenzene (S)	%	101	77-130		04/01/16 12:25	
Toluene-d8 (S)	%	101	80-120		04/01/16 12:25	

LABORATORY CONTROL SAMPLE: 1734520

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/L	4	3.8	95	61-131	
1,2-Dichloroethane-d4 (S)	%			98	81-127	
4-Bromofluorobenzene (S)	%			99	77-130	
Toluene-d8 (S)	%			102	80-120	

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QUALITY CONTROL DATA

Project: NUSTAR PIPELINE RLC2-008-72928
Pace Project No.: 60215639

QC Batch: MSV/75011 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260/KS TPH-WATER
Associated Lab Samples: 60215639001, 60215639002, 60215639003, 60215639004

METHOD BLANK: 1734521 Matrix: Water
Associated Lab Samples: 60215639001, 60215639002, 60215639003, 60215639004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
LRH (C5-C8)	mg/L	ND	0.050	0.010	04/01/16 11:09	
1,2-Dichloroethane-d4 (S)	%	103	80-120		04/01/16 11:09	
4-Bromofluorobenzene (S)	%	96	80-120		04/01/16 11:09	
Toluene-d8 (S)	%	101	80-120		04/01/16 11:09	

LABORATORY CONTROL SAMPLE & LCSD: 1734522 1734523

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
LRH (C5-C8)	mg/L	.4	0.37	0.37	92	92	70-130	1	25	
1,2-Dichloroethane-d4 (S)	%				104	102	80-120			
4-Bromofluorobenzene (S)	%				98	99	80-120			
Toluene-d8 (S)	%				101	102	80-120			

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QUALITY CONTROL DATA

Project: NUSTAR PIPELINE RLC2-008-72928
Pace Project No.: 60215639

QC Batch: OEXT/53707 Analysis Method: EPA 8015C MOD
QC Batch Method: EPA 3510C Analysis Description: EPA 8015 MD
Associated Lab Samples: 60215639001, 60215639002, 60215639003, 60215639004

METHOD BLANK: 1735450 Matrix: Water
Associated Lab Samples: 60215639001, 60215639002, 60215639003, 60215639004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
MRH (C9-C18)	mg/L	ND	0.060	0.030	04/05/16 17:28	
1-Chloro-octadecane (S)	%	71	40-140		04/05/16 17:28	

LABORATORY CONTROL SAMPLE & LCSD: 1735451 1735452

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
MRH (C9-C18)	mg/L	.12	0.098	0.077	82	65	40-140	23	25	
1-Chloro-octadecane (S)	%				69	69	40-140			

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QUALIFIERS

Project: NUSTAR PIPELINE RLC2-008-72928
Pace Project No.: 60215639

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSV/74899

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

Batch: MSV/74904

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

Batch: MSV/75005

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

Batch: MSV/75011

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

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NUSTAR PIPELINE RLC2-008-72928
Pace Project No.: 60215639

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60215639001	**MW-1**	EPA 3510C	OEXT/53707	EPA 8015C MOD	GCSV/20816
60215639002	**MW-3**	EPA 3510C	OEXT/53707	EPA 8015C MOD	GCSV/20816
60215639003	**MW-8**	EPA 3510C	OEXT/53707	EPA 8015C MOD	GCSV/20816
60215639004	**MW-10**	EPA 3510C	OEXT/53707	EPA 8015C MOD	GCSV/20816
60215639001	**MW-1**	EPA 5030B/8260	MSV/75005		
60215639002	**MW-3**	EPA 5030B/8260	MSV/75005		
60215639003	**MW-8**	EPA 5030B/8260	MSV/74899		
60215639004	**MW-10**	EPA 5030B/8260	MSV/75005		
60215639005	**TRIP BLANK**	EPA 5030B/8260	MSV/74899		
60215639001	**MW-1**	EPA 8260/OA1	MSV/75010		
60215639002	**MW-3**	EPA 8260/OA1	MSV/75010		
60215639003	**MW-8**	EPA 8260/OA1	MSV/75010		
60215639004	**MW-10**	EPA 8260/OA1	MSV/75010		
60215639001	**MW-1**	EPA 8260	MSV/74904		
60215639001	**MW-1**	EPA 8260	MSV/75011		
60215639002	**MW-3**	EPA 8260	MSV/75011		
60215639003	**MW-8**	EPA 8260	MSV/75011		
60215639004	**MW-10**	EPA 8260	MSV/75011		

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Sample Condition Upon Receipt

WO#: 60215639

60215639

Client Name: KDHE

Optional
Proj Due Date:
Proj Name:

Courier: FedEx ☐ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☒ Other ☐ Client ☐

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

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

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☐ Other ☒ PAPR

Thermometer Used: CF +1.0 T-239 / CF 0.0 T-262 **Type of Ice:** Wet Blue None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 5.8

Temperature should be above freezing to 6°C

Date and initials of person examining contents: S 3/24/14

Chain of Custody present:	☒Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☒Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☒Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☒Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☒Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time requested:	☐Yes ☒No ☐N/A	7.
Sufficient volume:	☒Yes ☐No ☐N/A	8.
Correct containers used:	☒Yes ☐No ☐N/A	
Pace containers used:	☒Yes ☐No ☐N/A	9.
Containers intact:	☒Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☒N/A	12.
Sample labels match COC:	☒Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix:	WT	13.
All containers needing preservation have been checked.	☐Yes ☒No ☐N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☒No ☐N/A	14.
Exceptions: VOA, Coliform, O&G, WI-DRO (water)	☒Yes ☐No S 3/24/14	Initial when completed / Lot # of added preservative
Trip Blank present:	☒Yes ☐No ☐N/A	
Pace Trip Blank lot # (if purchased): Cover		15.
Headspace in VOA vials (>6mm):	☐Yes ☒No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☒N/A	17. List State:
Additional labels attached to 5035A vials in the field?	☐Yes ☐No ☒N/A	18.

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 3/25/14

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: of

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	KDHE	Report To:	Daniel Newman	Attention:	Theresa Hattan
Address:	1000 SW Jackson	Copy To:		Company Name:	
	Topeka, KS 66612			Address:	
Email To:	dnewman@kdheks.gov	Purchase Order No.:		Pace Quote Reference:	
Phone: 785-296-1660	Fax:	Project Name:	NuStar Pipeline Release North Andover Site	Pace Project Manager:	Heather Wilson
Requested Due Date/TAT:		Project Number:	C2-008-72928	Pace Profile #:	8442, 2

REGULATORY AGENCY

☑ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: KS

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Full list VOCs 8260	TPH-GRO (OA-1)	KS LRH	KS MRH	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
										Preservatives								Y/N	Y	Y	Y	Y		60215639
1	MW-1	WT	G			3/23/16	11:58		8				X						X	X	X	X		1(DG9H) 2(AG2H) 001
2	MW-3	WT	G			3/23/16	10:23		8				X											002
3	MW-8	WT	G			3/23/16	11:05		8				X											003
4	MW-10	WT	G			3/23/16	4:48		8				X											004
5	TRIP BLANK	WT	G			3/23/16	12:00		2				X											2(DG9H) TB 005
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Dan Newman	3/24/16	2:09 ~~4:30~~	[signature]	3-24	2:09				
				[signature]	3/24/16	1625	58	Y	Y	Y

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Dan Newman					
SIGNATURE of SAMPLER:	Dan Newman	DATE Signed (MM/DD/YY): 3/24/16				

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

ESC LAB SCIENCES
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ANALYTICAL REPORT

April 18, 2016

myESC
REAL TIME DATA ACCESS

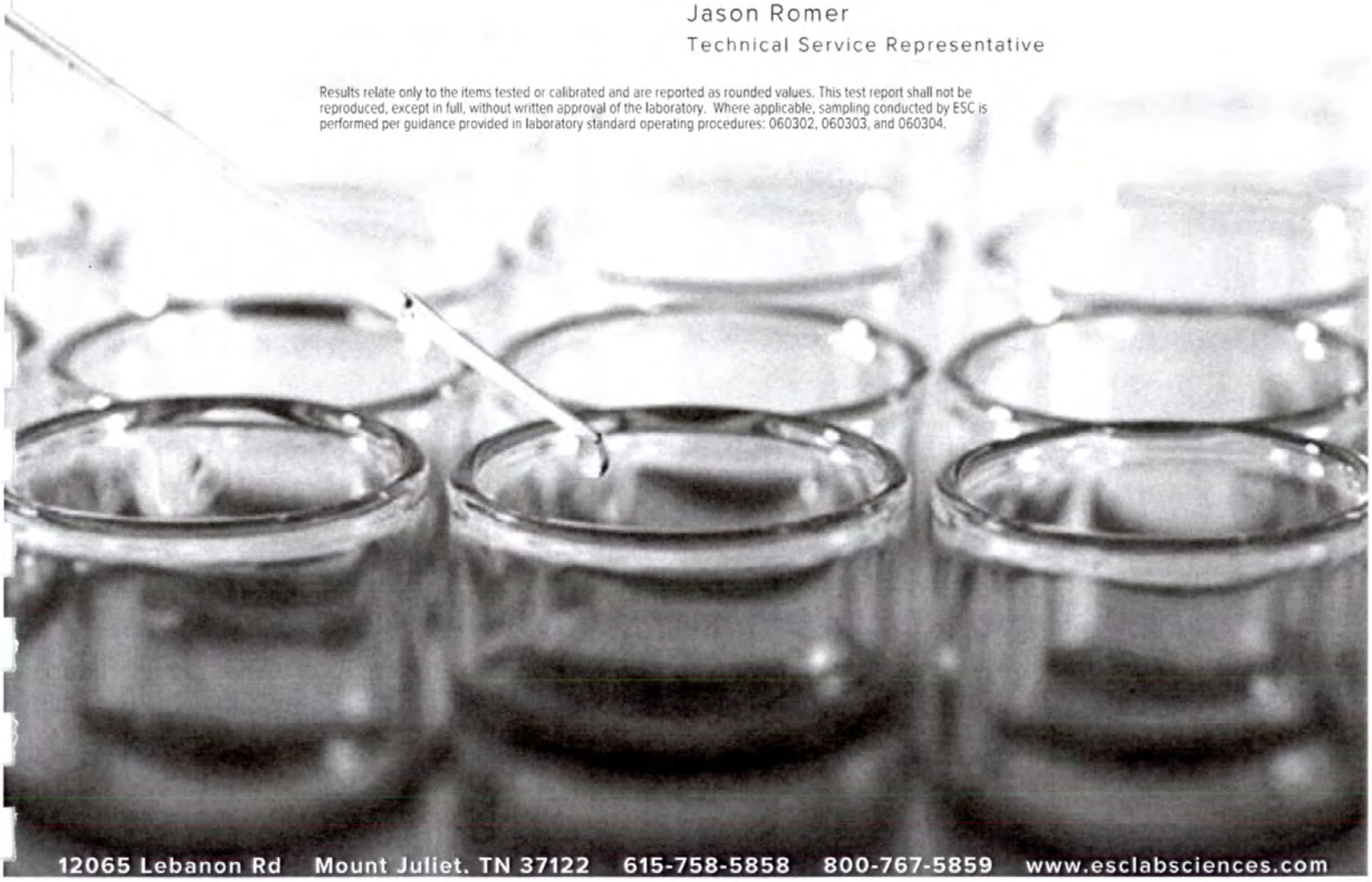
Apex Companies, LLC- Portland, OR

Sample Delivery Group:	L825714
Samples Received:	03/25/2016
Project Number:	
Description:	Andover Colt Court Release Site
Report To:	Samuel Jackson 3015 SW First Avenue Portland, OR 97201-4707

Entire Report Reviewed By:

Jason Romer
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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MW-1 33FT L825714-01 GW

Collected by	Collected date/time	Received date/time
	03/23/16 11:58	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859943	1	03/31/16 15:25	04/02/16 03:24	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860128	10	03/29/16 14:00	03/29/16 14:00	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860415	1	04/03/16 20:21	04/03/16 20:21	GLN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG861140	20	04/04/16 23:57	04/04/16 23:57	GLN
Volatile Petroleum Hydrocarbons by Method 8015	WG861256	5	04/03/16 23:57	04/03/16 23:57	ACG

MW-2 36FT L825714-02 GW

Collected by	Collected date/time	Received date/time
	03/21/16 16:16	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859943	1	03/31/16 15:25	04/02/16 03:49	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860128	1	03/29/16 11:55	03/29/16 11:55	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860415	1	04/03/16 20:39	04/03/16 20:39	GLN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG861140	1	04/04/16 23:36	04/04/16 23:36	GLN
Volatile Petroleum Hydrocarbons by Method 8015	WG861256	1	04/04/16 00:39	04/04/16 00:39	ACG

MW-3 37FT L825714-03 GW

Collected by	Collected date/time	Received date/time
	03/23/16 10:27	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859943	1	03/31/16 15:25	04/02/16 04:14	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860128	1	03/29/16 14:21	03/29/16 14:21	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860415	1	04/03/16 20:57	04/03/16 20:57	GLN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG861140	5	04/05/16 00:17	04/05/16 00:17	GLN
Volatile Petroleum Hydrocarbons by Method 8015	WG859662	1	03/30/16 12:54	03/30/16 12:54	BMB

MW-4 32FT L825714-04 GW

Collected by	Collected date/time	Received date/time
	03/22/16 12:35	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859943	1	03/31/16 15:25	04/02/16 04:39	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860128	1	03/29/16 14:42	03/29/16 14:42	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860415	1	04/03/16 21:16	04/03/16 21:16	GLN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG861140	1	04/05/16 00:37	04/05/16 00:37	GLN
Volatile Petroleum Hydrocarbons by Method 8015	WG859662	1	03/30/16 13:28	03/30/16 13:28	BMB

MW-5 23FT L825714-05 GW

Collected by	Collected date/time	Received date/time
	03/22/16 15:20	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859943	1	03/31/16 15:25	04/02/16 05:03	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860128	1	03/29/16 15:03	03/29/16 15:03	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860415	1	04/03/16 21:34	04/03/16 21:34	GLN
Volatile Petroleum Hydrocarbons by Method 8015	WG859662	1	03/30/16 14:01	03/30/16 14:01	BMB

MW-6 24FT L825714-06 GW

Collected by	Collected date/time	Received date/time
	03/22/16 10:40	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859943	1	03/31/16 15:25	04/02/16 05:28	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860128	1	03/29/16 15:23	03/29/16 15:23	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860415	1	04/03/16 21:52	04/03/16 21:52	GLN
Volatile Petroleum Hydrocarbons by Method 8015	WG859662	1	03/30/16 14:34	03/30/16 14:34	BMB

MW-7 19FT L825714-07 GW

Collected by	Collected date/time	Received date/time
	03/22/16 10:20	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859943	1	03/31/16 15:25	04/02/16 05:53	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860128	1	03/29/16 15:44	03/29/16 15:44	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860415	1	04/03/16 22:10	04/03/16 22:10	GLN
Volatile Petroleum Hydrocarbons by Method 8015	WG859662	1	03/30/16 15:08	03/30/16 15:08	BMB

MW-8 24FT L825714-08 GW

Collected by	Collected date/time	Received date/time
	03/23/16 11:05	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859943	1	03/31/16 15:25	04/02/16 06:18	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860128	1	03/29/16 16:05	03/29/16 16:05	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860415	1	04/03/16 22:29	04/03/16 22:29	GLN
Volatile Petroleum Hydrocarbons by Method 8015	WG859662	1	03/30/16 15:41	03/30/16 15:41	BMB

MW-9 32FT L825714-09 GW

Collected by	Collected date/time	Received date/time
	03/22/16 09:35	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859943	1	03/31/16 15:25	04/02/16 06:43	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860128	1	03/29/16 16:26	03/29/16 16:26	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860415	1	04/03/16 22:47	04/03/16 22:47	GLN
Volatile Petroleum Hydrocarbons by Method 8015	WG859662	1	03/30/16 16:14	03/30/16 16:14	BMB

MW-10 31FT L825714-10 GW

Collected by	Collected date/time	Received date/time
	03/23/16 09:48	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859943	1	03/31/16 15:25	04/02/16 07:07	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860128	1	03/29/16 16:47	03/29/16 16:47	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860415	1	04/03/16 23:05	04/03/16 23:05	GLN
Volatile Petroleum Hydrocarbons by Method 8015	WG859662	1	03/30/16 16:48	03/30/16 16:48	BMB

MW-11 31FT L825714-11 GW

Collected by	Collected date/time	Received date/time
	03/21/16 17:59	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG861588	1	04/04/16 15:31	04/04/16 22:44	TRF
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860128	1	03/29/16 17:08	03/29/16 17:08	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860415	1	04/03/16 23:24	04/03/16 23:24	GLN
Volatile Petroleum Hydrocarbons by Method 8015	WG859662	1	03/30/16 17:21	03/30/16 17:21	BMB

Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

MW-12 33FT L825714-12 GW

Collected by	Collected date/time	Received date/time
	03/22/16 08:50	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859943	1	03/31/16 15:25	04/02/16 07:57	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860128	1	03/29/16 17:29	03/29/16 17:29	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860415	1	04/03/16 23:42	04/03/16 23:42	GLN
Volatile Petroleum Hydrocarbons by Method 8015	WG859662	1	03/30/16 17:54	03/30/16 17:54	BMB

MW-13 33FT L825714-13 GW

Collected by	Collected date/time	Received date/time
	03/21/16 15:35	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG861588	1	04/04/16 15:31	04/04/16 23:09	TRF
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860128	1	03/29/16 17:49	03/29/16 17:49	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860415	1	04/04/16 00:00	04/04/16 00:00	GLN
Volatile Petroleum Hydrocarbons by Method 8015	WG859662	1	03/30/16 18:28	03/30/16 18:28	BMB

MW-14 35FT L825714-14 GW

Collected by	Collected date/time	Received date/time
	03/22/16 08:10	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859943	1	03/31/16 15:25	04/02/16 08:47	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860128	1	03/29/16 18:10	03/29/16 18:10	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860415	1	04/04/16 00:18	04/04/16 00:18	GLN
Volatile Petroleum Hydrocarbons by Method 8015	WG859662	1	03/30/16 19:01	03/30/16 19:01	BMB

MW-15 33FT L825714-15 GW

Collected by	Collected date/time	Received date/time
	03/21/16 16:53	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859943	1	03/31/16 15:25	04/02/16 09:11	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860128	1	03/29/16 18:31	03/29/16 18:31	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860415	1	04/04/16 00:37	04/04/16 00:37	GLN
Volatile Petroleum Hydrocarbons by Method 8015	WG859662	1	03/30/16 19:34	03/30/16 19:34	BMB

MW-16 32FT L825714-16 GW

Collected by	Collected date/time	Received date/time
	03/21/16 17:26	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859943	1	03/31/16 15:25	04/02/16 09:36	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860128	1	03/29/16 18:52	03/29/16 18:52	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860415	1	04/04/16 00:55	04/04/16 00:55	GLN
Volatile Petroleum Hydrocarbons by Method 8015	WG859662	1	03/30/16 20:08	03/30/16 20:08	BMB

MW-17 34FT L825714-17 GW

Collected by	Collected date/time	Received date/time
	03/22/16 11:11	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859943	1	03/31/16 15:25	04/02/16 10:01	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860128	1	03/29/16 19:13	03/29/16 19:13	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860415	1	04/04/16 01:13	04/04/16 01:13	GLN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG861140	5	04/05/16 00:58	04/05/16 00:58	GLN
Volatile Petroleum Hydrocarbons by Method 8015	WG859662	1	03/30/16 20:41	03/30/16 20:41	BMB

MW-18 33FT L825714-18 GW

Collected by	Collected date/time	Received date/time
	03/22/16 14:25	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859943	1	03/31/16 15:25	04/02/16 10:26	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860128	1	03/29/16 19:34	03/29/16 19:34	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860415	1	04/04/16 01:32	04/04/16 01:32	GLN
Volatile Petroleum Hydrocarbons by Method 8015	WG859662	1	03/30/16 21:14	03/30/16 21:14	BMB

MW-19 33FT L825714-19 GW

Collected by	Collected date/time	Received date/time
	03/22/16 14:55	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859943	1	03/31/16 15:25	04/02/16 10:51	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860128	1	03/29/16 19:55	03/29/16 19:55	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860420	1	04/02/16 04:23	04/02/16 04:23	GLN
Volatile Petroleum Hydrocarbons by Method 8015	WG859662	1	03/30/16 21:47	03/30/16 21:47	BMB

SVE-2 L825714-20 GW

Collected by	Collected date/time	Received date/time
	03/23/16 15:50	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859943	1	03/31/16 15:25	04/02/16 11:15	DMG
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860156	1	03/29/16 15:40	03/29/16 15:40	JAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860420	1	04/02/16 04:44	04/02/16 04:44	GLN
Volatile Petroleum Hydrocarbons by Method 8015	WG859662	1	03/30/16 22:21	03/30/16 22:21	BMB

SVE-4 L825714-21 GW

Collected by	Collected date/time	Received date/time
	03/23/16 16:00	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860420	10	04/02/16 05:05	04/02/16 05:05	GLN

TRIP BLANK L825714-22 GW

Collected by	Collected date/time	Received date/time
	03/23/16 00:00	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860420	1	04/02/16 03:00	04/02/16 03:00	GLN

DUP-1 L825714-23 GW

Collected by	Collected date/time	Received date/time
	03/21/16 00:00	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859958	1	03/28/16 21:14	03/29/16 20:22	TRF
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860845	1	03/31/16 15:45	03/31/16 15:45	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860420	1	04/02/16 05:26	04/02/16 05:26	GLN
Volatile Petroleum Hydrocarbons by Method 8015	WG861256	1	04/04/16 01:22	04/04/16 01:22	ACG

DUP-4 L825714-24 GW

Collected by	Collected date/time	Received date/time
	03/21/16 00:00	03/25/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG859958	1	03/28/16 21:14	03/29/16 20:47	TRF
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG860845	1	03/31/16 16:06	03/31/16 16:06	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG860420	1	04/02/16 05:47	04/02/16 05:47	GLN
Volatile Petroleum Hydrocarbons by Method 8015	WG861665	1	04/05/16 14:44	04/05/16 14:44	ACG

Tc
Ss
Cn
Sr
Qc
Gl
Al
Sc

All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jason Romer
Technical Service Representative

Sample Handling and Receiving

The following samples were prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.

ESC Sample ID	Project Sample ID	Method
L825714-24	DUP-4	8015

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	3.94		0.500	5	04/03/2016 23:57	WG861256
(S) 2,5-Dibromotoluene(FID)	*78.2*		*70.0-130*		*04/03/2016 23:57*	WG861256
(S) 2,5-Dibromotoluene(PID)	*79.5*		*70.0-130*		*04/03/2016 23:57*	WG861256

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	10.1		1.00	10	03/29/2016 14:00	WG860128
(S) α,α,α-Trifluorotoluene(FID)	*97.5*		*62.0-128*		*03/29/2016 14:00*	WG860128

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.675		0.0100	20	04/04/2016 23:57	WG861140
Toluene	0.401		0.0100	20	04/04/2016 23:57	WG861140
Ethylbenzene	0.139		0.000500	1	04/03/2016 20:21	WG860415
Xylenes, Total	2.20		0.0300	20	04/04/2016 23:57	WG861140
Methyl tert-butyl ether	0.0124		0.000500	1	04/03/2016 20:21	WG860415
Naphthalene	0.0500		0.000500	1	04/03/2016 20:21	WG860415
1,2-Dichloroethane	0.000535		0.000500	1	04/03/2016 20:21	WG860415
1,2,4-Trimethylbenzene	0.498		0.0100	20	04/04/2016 23:57	WG861140
1,3,5-Trimethylbenzene	0.0980		0.000500	1	04/03/2016 20:21	WG860415
n-Butylbenzene	0.00317		0.000500	1	04/03/2016 20:21	WG860415
n-Propylbenzene	0.0160		0.000500	1	04/03/2016 20:21	WG860415
Isopropylbenzene	0.00541		0.000500	1	04/03/2016 20:21	WG860415
2-Butanone (MEK)	0.00622		0.00250	1	04/03/2016 20:21	WG860415
Cyclohexane	0.0330	E	0.00100	1	04/03/2016 20:21	WG860415
Methyl Cyclohexane	0.00975		0.00100	1	04/03/2016 20:21	WG860415
(S) Toluene-d8	*101*		*90.0-115*		*04/03/2016 20:21*	WG860415
(S) Dibromofluoromethane	*84.3*		*79.0-121*		*04/03/2016 20:21*	WG860415
(S) 4-Bromofluorobenzene	*94.7*		*80.1-120*		*04/03/2016 20:21*	WG860415

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	8.07		0.100	1	04/02/2016 03:24	WG859943
(S) 1-Chloro-octadecane	*49.3*		*40.0-140*		*04/02/2016 03:24*	WG859943

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	ND		0.100	1	04/04/2016 00:39	WG861256
(S) 2,5-Dibromotoluene(FID)	*78.4*		*70.0-130*		*04/04/2016 00:39*	WG861256
(S) 2,5-Dibromotoluene(PID)	*83.4*		*70.0-130*		*04/04/2016 00:39*	WG861256

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND	J3 J5	0.100	1	03/29/2016 11:55	WG860128
(S) a,a,a-Trifluorotoluene(FID)	*99.0*		*62.0-128*		*03/29/2016 11:55*	WG860128

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	04/04/2016 23:36	WG861140
Toluene	ND		0.000500	1	04/04/2016 23:36	WG861140
Ethylbenzene	ND		0.000500	1	04/03/2016 20:39	WG860415
Xylenes, Total	ND		0.00150	1	04/04/2016 23:36	WG861140
Methyl tert-butyl ether	ND		0.000500	1	04/03/2016 20:39	WG860415
Naphthalene	0.00320		0.000500	1	04/03/2016 20:39	WG860415
1,2-Dichloroethane	ND		0.000500	1	04/03/2016 20:39	WG860415
1,2,4-Trimethylbenzene	ND		0.000500	1	04/04/2016 23:36	WG861140
1,3,5-Trimethylbenzene	ND		0.000500	1	04/03/2016 20:39	WG860415
n-Butylbenzene	ND		0.000500	1	04/03/2016 20:39	WG860415
n-Propylbenzene	ND		0.000500	1	04/03/2016 20:39	WG860415
Isopropylbenzene	ND		0.000500	1	04/03/2016 20:39	WG860415
2-Butanone (MEK)	ND		0.00250	1	04/03/2016 20:39	WG860415
Cyclohexane	ND		0.00100	1	04/03/2016 20:39	WG860415
Methyl Cyclohexane	ND		0.00100	1	04/03/2016 20:39	WG860415
(S) Toluene-d8	*103*		*90.0-115*		*04/03/2016 20:39*	WG860415
(S) Dibromofluoromethane	*97.4*		*79.0-121*		*04/03/2016 20:39*	WG860415
(S) 4-Bromofluorobenzene	*97.6*		*80.1-120*		*04/03/2016 20:39*	WG860415

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	ND		0.100	1	04/02/2016 03:49	WG859943
(S) 1-Chloro-octadecane	*48.6*		*40.0-140*		*04/02/2016 03:49*	WG859943

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	1.26		0.100	1	03/30/2016 12:54	WG859662
(S) 2,5-Dibromotoluene(FID)	*82.7*		*70.0-130*		*03/30/2016 12:54*	WG859662
(S) 2,5-Dibromotoluene(PID)	*70.8*		*70.0-130*		*03/30/2016 12:54*	WG859662

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.55		0.100	1	03/29/2016 14:21	WG860128
(S) a,a,a-Trifluorotoluene(FID)	*89.2*		*62.0-128*		*03/29/2016 14:21*	WG860128

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.257		0.00250	5	04/05/2016 00:17	WG861140
Toluene	0.00172		0.000500	1	04/03/2016 20:57	WG860415
Ethylbenzene	0.192		0.000500	1	04/03/2016 20:57	WG860415
Xylenes, Total	ND		0.00750	5	04/05/2016 00:17	WG861140
Methyl tert-butyl ether	ND		0.000500	1	04/03/2016 20:57	WG860415
Naphthalene	0.0156		0.000500	1	04/03/2016 20:57	WG860415
1,2-Dichloroethane	ND		0.000500	1	04/03/2016 20:57	WG860415
1,2,4-Trimethylbenzene	0.0251		0.000500	1	04/03/2016 20:57	WG860415
1,3,5-Trimethylbenzene	0.00144		0.000500	1	04/03/2016 20:57	WG860415
n-Butylbenzene	0.000787		0.000500	1	04/03/2016 20:57	WG860415
n-Propylbenzene	0.0191		0.000500	1	04/03/2016 20:57	WG860415
Isopropylbenzene	0.00743		0.000500	1	04/03/2016 20:57	WG860415
2-Butanone (MEK)	ND		0.00250	1	04/03/2016 20:57	WG860415
Cyclohexane	0.0421	E	0.00100	1	04/03/2016 20:57	WG860415
Methyl Cyclohexane	0.00506		0.00100	1	04/03/2016 20:57	WG860415
(S) Toluene-d8	*105*		*90.0-115*		*04/03/2016 20:57*	WG860415
(S) Dibromofluoromethane	*91.9*		*79.0-121*		*04/03/2016 20:57*	WG860415
(S) 4-Bromofluorobenzene	*96.3*		*80.1-120*		*04/03/2016 20:57*	WG860415

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	0.510		0.100	1	04/02/2016 04:14	WG859943
(S) 1-Chloro-octadecane	*60.9*		*40.0-140*		*04/02/2016 04:14*	WG859943

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	ND		0.100	1	03/30/2016 13:28	WG859662
(S) 2,5-Dibromotoluene(FID)	*83.1*		*70.0-130*		*03/30/2016 13:28*	WG859662
(S) 2,5-Dibromotoluene(PID)	*70.6*		*70.0-130*		*03/30/2016 13:28*	WG859662

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	03/29/2016 14:42	WG860128
(S) a,a,a-Trifluorotoluene(FID)	*99.4*		*62.0-128*		*03/29/2016 14:42*	WG860128

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	04/05/2016 00:37	WG861140
Toluene	ND		0.000500	1	04/03/2016 21:16	WG860415
Ethylbenzene	ND		0.000500	1	04/03/2016 21:16	WG860415
Xylenes, Total	ND		0.00150	1	04/03/2016 21:16	WG860415
Methyl tert-butyl ether	ND		0.000500	1	04/03/2016 21:16	WG860415
Naphthalene	0.000725		0.000500	1	04/03/2016 21:16	WG860415
1,2-Dichloroethane	ND		0.000500	1	04/03/2016 21:16	WG860415
1,2,4-Trimethylbenzene	ND		0.000500	1	04/03/2016 21:16	WG860415
1,3,5-Trimethylbenzene	ND		0.000500	1	04/03/2016 21:16	WG860415
n-Butylbenzene	ND		0.000500	1	04/03/2016 21:16	WG860415
n-Propylbenzene	ND		0.000500	1	04/03/2016 21:16	WG860415
Isopropylbenzene	ND		0.000500	1	04/03/2016 21:16	WG860415
2-Butanone (MEK)	ND		0.00250	1	04/03/2016 21:16	WG860415
Cyclohexane	ND		0.00100	1	04/03/2016 21:16	WG860415
Methyl Cyclohexane	ND		0.00100	1	04/03/2016 21:16	WG860415
(S) Toluene-d8	*105*		*90.0-115*		*04/03/2016 21:16*	WG860415
(S) Dibromofluoromethane	*98.3*		*79.0-121*		*04/03/2016 21:16*	WG860415
(S) 4-Bromofluorobenzene	*91.9*		*80.1-120*		*04/03/2016 21:16*	WG860415

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	ND		0.100	1	04/02/2016 04:39	WG859943
(S) 1-Chloro-octadecane	*59.5*		*40.0-140*		*04/02/2016 04:39*	WG859943

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	ND		0.100	1	03/30/2016 14:01	WG859662
(S) 2,5-Dibromotoluene(FID)	*85.5*		*70.0-130*		*03/30/2016 14:01*	WG859662
(S) 2,5-Dibromotoluene(PID)	*72.7*		*70.0-130*		*03/30/2016 14:01*	WG859662

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	03/29/2016 15:03	WG860128
(S) a,a,a-Trifluorotoluene(FID)	*102*		*62.0-128*		*03/29/2016 15:03*	WG860128

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00446		0.000500	1	04/03/2016 21:34	WG860415
Toluene	0.00181		0.000500	1	04/03/2016 21:34	WG860415
Ethylbenzene	0.00310		0.000500	1	04/03/2016 21:34	WG860415
Xylenes, Total	0.00348		0.00150	1	04/03/2016 21:34	WG860415
Methyl tert-butyl ether	ND		0.000500	1	04/03/2016 21:34	WG860415
Naphthalene	0.00290		0.000500	1	04/03/2016 21:34	WG860415
1,2-Dichloroethane	ND		0.000500	1	04/03/2016 21:34	WG860415
1,2,4-Trimethylbenzene	0.00318		0.000500	1	04/03/2016 21:34	WG860415
1,3,5-Trimethylbenzene	0.00154		0.000500	1	04/03/2016 21:34	WG860415
n-Butylbenzene	ND		0.000500	1	04/03/2016 21:34	WG860415
n-Propylbenzene	0.000897		0.000500	1	04/03/2016 21:34	WG860415
Isopropylbenzene	0.000686		0.000500	1	04/03/2016 21:34	WG860415
2-Butanone (MEK)	ND		0.00250	1	04/03/2016 21:34	WG860415
Cyclohexane	0.00415		0.00100	1	04/03/2016 21:34	WG860415
Methyl Cyclohexane	ND		0.00100	1	04/03/2016 21:34	WG860415
(S) Toluene-d8	*103*		*90.0-115*		*04/03/2016 21:34*	WG860415
(S) Dibromofluoromethane	*99.6*		*79.0-121*		*04/03/2016 21:34*	WG860415
(S) 4-Bromofluorobenzene	*95.5*		*80.1-120*		*04/03/2016 21:34*	WG860415

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	ND		0.100	1	04/02/2016 05:03	WG859943
(S) 1-Chloro-octadecane	*55.5*		*40.0-140*		*04/02/2016 05:03*	WG859943

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	ND		0.100	1	03/30/2016 14:34	WG859662
(S) 2,5-Dibromotoluene(FID)	*83.5*		*70.0-130*		*03/30/2016 14:34*	WG859662
(S) 2,5-Dibromotoluene(PID)	*70.9*		*70.0-130*		*03/30/2016 14:34*	WG859662

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	03/29/2016 15:23	WG860128
(S) α,α,α-Trifluorotoluene(FID)	*99.7*		*62.0-128*		*03/29/2016 15:23*	WG860128

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	04/03/2016 21:52	WG860415
Toluene	ND		0.000500	1	04/03/2016 21:52	WG860415
Ethylbenzene	ND		0.000500	1	04/03/2016 21:52	WG860415
Xylenes, Total	ND		0.00150	1	04/03/2016 21:52	WG860415
Methyl tert-butyl ether	ND		0.000500	1	04/03/2016 21:52	WG860415
Naphthalene	ND		0.000500	1	04/03/2016 21:52	WG860415
1,2-Dichloroethane	ND		0.000500	1	04/03/2016 21:52	WG860415
1,2,4-Trimethylbenzene	ND		0.000500	1	04/03/2016 21:52	WG860415
1,3,5-Trimethylbenzene	ND		0.000500	1	04/03/2016 21:52	WG860415
n-Butylbenzene	ND		0.000500	1	04/03/2016 21:52	WG860415
n-Propylbenzene	ND		0.000500	1	04/03/2016 21:52	WG860415
Isopropylbenzene	ND		0.000500	1	04/03/2016 21:52	WG860415
2-Butanone (MEK)	ND		0.00250	1	04/03/2016 21:52	WG860415
Cyclohexane	ND		0.00100	1	04/03/2016 21:52	WG860415
Methyl Cyclohexane	ND		0.00100	1	04/03/2016 21:52	WG860415
(S) Toluene-d8	*99.1*		*90.0-115*		*04/03/2016 21:52*	WG860415
(S) Dibromofluoromethane	*96.1*		*79.0-121*		*04/03/2016 21:52*	WG860415
(S) 4-Bromofluorobenzene	*96.5*		*80.1-120*		*04/03/2016 21:52*	WG860415

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	ND		0.100	1	04/02/2016 05:28	WG859943
(S) 1-Chloro-octadecane	*59.6*		*40.0-140*		*04/02/2016 05:28*	WG859943

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	ND		0.100	1	03/30/2016 15:08	WG859662
(S) 2,5-Dibromotoluene(FID)	*82.1*		*70.0-130*		*03/30/2016 15:08*	WG859662
(S) 2,5-Dibromotoluene(PID)	*70.2*		*70.0-130*		*03/30/2016 15:08*	WG859662

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	03/29/2016 15:44	WG860128
(S) α,α,α-Trifluorotoluene(FID)	*100*		*62.0-128*		*03/29/2016 15:44*	WG860128

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	04/03/2016 22:10	WG860415
Toluene	ND		0.000500	1	04/03/2016 22:10	WG860415
Ethylbenzene	ND		0.000500	1	04/03/2016 22:10	WG860415
Xylenes, Total	ND		0.00150	1	04/03/2016 22:10	WG860415
Methyl tert-butyl ether	ND		0.000500	1	04/03/2016 22:10	WG860415
Naphthalene	ND		0.000500	1	04/03/2016 22:10	WG860415
1,2-Dichloroethane	ND		0.000500	1	04/03/2016 22:10	WG860415
1,2,4-Trimethylbenzene	ND		0.000500	1	04/03/2016 22:10	WG860415
1,3,5-Trimethylbenzene	ND		0.000500	1	04/03/2016 22:10	WG860415
n-Butylbenzene	ND		0.000500	1	04/03/2016 22:10	WG860415
n-Propylbenzene	ND		0.000500	1	04/03/2016 22:10	WG860415
Isopropylbenzene	ND		0.000500	1	04/03/2016 22:10	WG860415
2-Butanone (MEK)	ND		0.00250	1	04/03/2016 22:10	WG860415
Cyclohexane	ND		0.00100	1	04/03/2016 22:10	WG860415
Methyl Cyclohexane	ND		0.00100	1	04/03/2016 22:10	WG860415
(S) Toluene-d8	*103*		*90.0-115*		*04/03/2016 22:10*	WG860415
(S) Dibromofluoromethane	*96.0*		*79.0-121*		*04/03/2016 22:10*	WG860415
(S) 4-Bromofluorobenzene	*95.6*		*80.1-120*		*04/03/2016 22:10*	WG860415

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	ND		0.100	1	04/02/2016 05:53	WG859943
(S) 1-Chloro-octadecane	*52.8*		*40.0-140*		*04/02/2016 05:53*	WG859943

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	ND		0.100	1	03/30/2016 15:41	WG859662
(S) 2,5-Dibromotoluene(FID)	*84.1*		*70.0-130*		*03/30/2016 15:41*	WG859662
(S) 2,5-Dibromotoluene(PID)	*71.9*		*70.0-130*		*03/30/2016 15:41*	WG859662

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	03/29/2016 16:05	WG860128
(S) α,α,α-Trifluorotoluene(FID)	*99.6*		*62.0-128*		*03/29/2016 16:05*	WG860128

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	04/03/2016 22:29	WG860415
Toluene	ND		0.000500	1	04/03/2016 22:29	WG860415
Ethylbenzene	0.000740		0.000500	1	04/03/2016 22:29	WG860415
Xylenes, Total	ND		0.00150	1	04/03/2016 22:29	WG860415
Methyl tert-butyl ether	ND		0.000500	1	04/03/2016 22:29	WG860415
Naphthalene	ND		0.000500	1	04/03/2016 22:29	WG860415
1,2-Dichloroethane	ND		0.000500	1	04/03/2016 22:29	WG860415
1,2,4-Trimethylbenzene	ND		0.000500	1	04/03/2016 22:29	WG860415
1,3,5-Trimethylbenzene	ND		0.000500	1	04/03/2016 22:29	WG860415
n-Butylbenzene	ND		0.000500	1	04/03/2016 22:29	WG860415
n-Propylbenzene	ND		0.000500	1	04/03/2016 22:29	WG860415
Isopropylbenzene	ND		0.000500	1	04/03/2016 22:29	WG860415
2-Butanone (MEK)	ND		0.00250	1	04/03/2016 22:29	WG860415
Cyclohexane	ND		0.00100	1	04/03/2016 22:29	WG860415
Methyl Cyclohexane	ND		0.00100	1	04/03/2016 22:29	WG860415
(S) Toluene-d8	*101*		*90.0-115*		*04/03/2016 22:29*	WG860415
(S) Dibromofluoromethane	*97.7*		*79.0-121*		*04/03/2016 22:29*	WG860415
(S) 4-Bromofluorobenzene	*94.0*		*80.1-120*		*04/03/2016 22:29*	WG860415

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	ND		0.100	1	04/02/2016 06:18	WG859943
(S) 1-Chloro-octadecane	*52.6*		*40.0-140*		*04/02/2016 06:18*	WG859943

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	ND		0.100	1	03/30/2016 16:14	WG859662
(S) 2,5-Dibromotoluene(FID)	*84.5*		*70.0-130*		*03/30/2016 16:14*	WG859662
(S) 2,5-Dibromotoluene(PID)	*72.1*		*70.0-130*		*03/30/2016 16:14*	WG859662

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	03/29/2016 16:26	WG860128
(S) α,α,α-Trifluorotoluene(FID)	*99.7*		*62.0-128*		*03/29/2016 16:26*	WG860128

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	04/03/2016 22:47	WG860415
Toluene	ND		0.000500	1	04/03/2016 22:47	WG860415
Ethylbenzene	ND		0.000500	1	04/03/2016 22:47	WG860415
Xylenes, Total	ND		0.00150	1	04/03/2016 22:47	WG860415
Methyl tert-butyl ether	ND		0.000500	1	04/03/2016 22:47	WG860415
Naphthalene	ND		0.000500	1	04/03/2016 22:47	WG860415
1,2-Dichloroethane	ND		0.000500	1	04/03/2016 22:47	WG860415
1,2,4-Trimethylbenzene	ND		0.000500	1	04/03/2016 22:47	WG860415
1,3,5-Trimethylbenzene	ND		0.000500	1	04/03/2016 22:47	WG860415
n-Butylbenzene	ND		0.000500	1	04/03/2016 22:47	WG860415
n-Propylbenzene	ND		0.000500	1	04/03/2016 22:47	WG860415
Isopropylbenzene	ND		0.000500	1	04/03/2016 22:47	WG860415
2-Butanone (MEK)	ND		0.00250	1	04/03/2016 22:47	WG860415
Cyclohexane	ND		0.00100	1	04/03/2016 22:47	WG860415
Methyl Cyclohexane	ND		0.00100	1	04/03/2016 22:47	WG860415
(S) Toluene-d8	*101*		*90.0-115*		*04/03/2016 22:47*	WG860415
(S) Dibromofluoromethane	*100*		*79.0-121*		*04/03/2016 22:47*	WG860415
(S) 4-Bromofluorobenzene	*97.6*		*80.1-120*		*04/03/2016 22:47*	WG860415

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	ND		0.100	1	04/02/2016 06:43	WG859943
(S) 1-Chloro-octadecane	*56.5*		*40.0-140*		*04/02/2016 06:43*	WG859943

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	ND		0.100	1	03/30/2016 16:48	WG859662
(S) 2,5-Dibromotoluene(FID)	*82.8*		*70.0-130*		*03/30/2016 16:48*	WG859662
(S) 2,5-Dibromotoluene(PID)	*70.8*		*70.0-130*		*03/30/2016 16:48*	WG859662

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	03/29/2016 16:47	WG860128
(S) a,a,a-Trifluorotoluene(FID)	*99.5*		*62.0-128*		*03/29/2016 16:47*	WG860128

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000703		0.000500	1	04/03/2016 23:05	WG860415
Toluene	ND		0.000500	1	04/03/2016 23:05	WG860415
Ethylbenzene	ND		0.000500	1	04/03/2016 23:05	WG860415
Xylenes, Total	ND		0.00150	1	04/03/2016 23:05	WG860415
Methyl tert-butyl ether	ND		0.000500	1	04/03/2016 23:05	WG860415
Naphthalene	ND		0.000500	1	04/03/2016 23:05	WG860415
1,2-Dichloroethane	ND		0.000500	1	04/03/2016 23:05	WG860415
1,2,4-Trimethylbenzene	ND		0.000500	1	04/03/2016 23:05	WG860415
1,3,5-Trimethylbenzene	ND		0.000500	1	04/03/2016 23:05	WG860415
n-Butylbenzene	ND		0.000500	1	04/03/2016 23:05	WG860415
n-Propylbenzene	ND		0.000500	1	04/03/2016 23:05	WG860415
Isopropylbenzene	ND		0.000500	1	04/03/2016 23:05	WG860415
2-Butanone (MEK)	ND		0.00250	1	04/03/2016 23:05	WG860415
Cyclohexane	ND		0.00100	1	04/03/2016 23:05	WG860415
Methyl Cyclohexane	ND		0.00100	1	04/03/2016 23:05	WG860415
(S) Toluene-d8	*104*		*90.0-115*		*04/03/2016 23:05*	WG860415
(S) Dibromofluoromethane	*103*		*79.0-121*		*04/03/2016 23:05*	WG860415
(S) 4-Bromofluorobenzene	*96.3*		*80.1-120*		*04/03/2016 23:05*	WG860415

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	ND		0.100	1	04/02/2016 07:07	WG859943
(S) 1-Chloro-octadecane	*54.0*		*40.0-140*		*04/02/2016 07:07*	WG859943

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	ND		0.100	1	03/30/2016 17:21	WG859662
(S) 2,5-Dibromotoluene(FID)	*84.3*		*70.0-130*		*03/30/2016 17:21*	WG859662
(S) 2,5-Dibromotoluene(PID)	*72.0*		*70.0-130*		*03/30/2016 17:21*	WG859662

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	03/29/2016 17:08	WG860128
(S) α,α,α-Trifluorotoluene(FID)	*99.3*		*62.0-128*		*03/29/2016 17:08*	WG860128

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	04/03/2016 23:24	WG860415
Toluene	ND		0.000500	1	04/03/2016 23:24	WG860415
Ethylbenzene	ND		0.000500	1	04/03/2016 23:24	WG860415
Xylenes, Total	ND		0.00150	1	04/03/2016 23:24	WG860415
Methyl tert-butyl ether	ND		0.000500	1	04/03/2016 23:24	WG860415
Naphthalene	ND		0.000500	1	04/03/2016 23:24	WG860415
1,2-Dichloroethane	ND		0.000500	1	04/03/2016 23:24	WG860415
1,2,4-Trimethylbenzene	ND		0.000500	1	04/03/2016 23:24	WG860415
1,3,5-Trimethylbenzene	ND		0.000500	1	04/03/2016 23:24	WG860415
n-Butylbenzene	ND		0.000500	1	04/03/2016 23:24	WG860415
n-Propylbenzene	ND		0.000500	1	04/03/2016 23:24	WG860415
Isopropylbenzene	ND		0.000500	1	04/03/2016 23:24	WG860415
2-Butanone (MEK)	ND		0.00250	1	04/03/2016 23:24	WG860415
Cyclohexane	ND		0.00100	1	04/03/2016 23:24	WG860415
Methyl Cyclohexane	ND		0.00100	1	04/03/2016 23:24	WG860415
(S) Toluene-d8	*107*		*90.0-115*		*04/03/2016 23:24*	WG860415
(S) Dibromofluoromethane	*103*		*79.0-121*		*04/03/2016 23:24*	WG860415
(S) 4-Bromofluorobenzene	*99.9*		*80.1-120*		*04/03/2016 23:24*	WG860415

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	ND		0.100	1	04/04/2016 22:44	WG861588
(S) 1-Chloro-octadecane	*51.0*		*40.0-140*		*04/04/2016 22:44*	WG861588

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	ND		0.100	1	03/30/2016 17:54	WG859662
(S) 2,5-Dibromotoluene(FID)	*84.6*		*70.0-130*		*03/30/2016 17:54*	WG859662
(S) 2,5-Dibromotoluene(PID)	*72.1*		*70.0-130*		*03/30/2016 17:54*	WG859662

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	03/29/2016 17:29	WG860128
(S) a,a,a-Trifluorotoluene(FID)	*99.0*		*62.0-128*		*03/29/2016 17:29*	WG860128

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	04/03/2016 23:42	WG860415
Toluene	ND		0.000500	1	04/03/2016 23:42	WG860415
Ethylbenzene	ND		0.000500	1	04/03/2016 23:42	WG860415
Xylenes, Total	ND		0.00150	1	04/03/2016 23:42	WG860415
Methyl tert-butyl ether	ND		0.000500	1	04/03/2016 23:42	WG860415
Naphthalene	ND		0.000500	1	04/03/2016 23:42	WG860415
1,2-Dichloroethane	ND		0.000500	1	04/03/2016 23:42	WG860415
1,2,4-Trimethylbenzene	ND		0.000500	1	04/03/2016 23:42	WG860415
1,3,5-Trimethylbenzene	ND		0.000500	1	04/03/2016 23:42	WG860415
n-Butylbenzene	ND		0.000500	1	04/03/2016 23:42	WG860415
n-Propylbenzene	ND		0.000500	1	04/03/2016 23:42	WG860415
Isopropylbenzene	ND		0.000500	1	04/03/2016 23:42	WG860415
2-Butanone (MEK)	ND		0.00250	1	04/03/2016 23:42	WG860415
Cyclohexane	ND		0.00100	1	04/03/2016 23:42	WG860415
Methyl Cyclohexane	ND		0.00100	1	04/03/2016 23:42	WG860415
(S) Toluene-d8	*105*		*90.0-115*		*04/03/2016 23:42*	WG860415
(S) Dibromofluoromethane	*99.0*		*79.0-121*		*04/03/2016 23:42*	WG860415
(S) 4-Bromofluorobenzene	*99.3*		*80.1-120*		*04/03/2016 23:42*	WG860415

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	ND		0.100	1	04/02/2016 07:57	WG859943
(S) 1-Chloro-octadecane	*53.9*		*40.0-140*		*04/02/2016 07:57*	WG859943

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	ND		0.100	1	03/30/2016 18:28	WG859662
(S) 2,5-Dibromotoluene(FID)	*84.9*		*70.0-130*		*03/30/2016 18:28*	WG859662
(S) 2,5-Dibromotoluene(PID)	*72.5*		*70.0-130*		*03/30/2016 18:28*	WG859662

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	03/29/2016 17:49	WG860128
(S) a,a,a-Trifluorotoluene(FID)	*99.3*		*62.0-128*		*03/29/2016 17:49*	WG860128

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	04/04/2016 00:00	WG860415
Toluene	ND		0.000500	1	04/04/2016 00:00	WG860415
Ethylbenzene	ND		0.000500	1	04/04/2016 00:00	WG860415
Xylenes, Total	ND		0.00150	1	04/04/2016 00:00	WG860415
Methyl tert-butyl ether	ND		0.000500	1	04/04/2016 00:00	WG860415
Naphthalene	ND		0.000500	1	04/04/2016 00:00	WG860415
1,2-Dichloroethane	ND		0.000500	1	04/04/2016 00:00	WG860415
1,2,4-Trimethylbenzene	ND		0.000500	1	04/04/2016 00:00	WG860415
1,3,5-Trimethylbenzene	ND		0.000500	1	04/04/2016 00:00	WG860415
n-Butylbenzene	ND		0.000500	1	04/04/2016 00:00	WG860415
n-Propylbenzene	ND		0.000500	1	04/04/2016 00:00	WG860415
Isopropylbenzene	ND		0.000500	1	04/04/2016 00:00	WG860415
2-Butanone (MEK)	ND		0.00250	1	04/04/2016 00:00	WG860415
Cyclohexane	ND		0.00100	1	04/04/2016 00:00	WG860415
Methyl Cyclohexane	ND		0.00100	1	04/04/2016 00:00	WG860415
(S) Toluene-d8	*103*		*90.0-115*		*04/04/2016 00:00*	WG860415
(S) Dibromofluoromethane	*101*		*79.0-121*		*04/04/2016 00:00*	WG860415
(S) 4-Bromofluorobenzene	*95.2*		*80.1-120*		*04/04/2016 00:00*	WG860415

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	ND		0.100	1	04/04/2016 23:09	WG861588
(S) 1-Chloro-octadecane	*52.1*		*40.0-140*		*04/04/2016 23:09*	WG861588

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	ND		0.100	1	03/30/2016 19:01	WG859662
(S) 2,5-Dibromotoluene(FID)	*83.6*		*70.0-130*		*03/30/2016 19:01*	WG859662
(S) 2,5-Dibromotoluene(PID)	*71.4*		*70.0-130*		*03/30/2016 19:01*	WG859662

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	03/29/2016 18:10	WG860128
(S) α,α,α-Trifluorotoluene(FID)	*99.5*		*62.0-128*		*03/29/2016 18:10*	WG860128

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	04/04/2016 00:18	WG860415
Toluene	ND		0.000500	1	04/04/2016 00:18	WG860415
Ethylbenzene	ND		0.000500	1	04/04/2016 00:18	WG860415
Xylenes, Total	ND		0.00150	1	04/04/2016 00:18	WG860415
Methyl tert-butyl ether	ND		0.000500	1	04/04/2016 00:18	WG860415
Naphthalene	ND		0.000500	1	04/04/2016 00:18	WG860415
1,2-Dichloroethane	ND		0.000500	1	04/04/2016 00:18	WG860415
1,2,4-Trimethylbenzene	ND		0.000500	1	04/04/2016 00:18	WG860415
1,3,5-Trimethylbenzene	ND		0.000500	1	04/04/2016 00:18	WG860415
n-Butylbenzene	ND		0.000500	1	04/04/2016 00:18	WG860415
n-Propylbenzene	ND		0.000500	1	04/04/2016 00:18	WG860415
Isopropylbenzene	ND		0.000500	1	04/04/2016 00:18	WG860415
2-Butanone (MEK)	ND		0.00250	1	04/04/2016 00:18	WG860415
Cyclohexane	ND		0.00100	1	04/04/2016 00:18	WG860415
Methyl Cyclohexane	ND		0.00100	1	04/04/2016 00:18	WG860415
(S) Toluene-d8	*101*		*90.0-115*		*04/04/2016 00:18*	WG860415
(S) Dibromofluoromethane	*102*		*79.0-121*		*04/04/2016 00:18*	WG860415
(S) 4-Bromofluorobenzene	*93.8*		*80.1-120*		*04/04/2016 00:18*	WG860415

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	ND		0.100	1	04/02/2016 08:47	WG859943
(S) 1-Chloro-octadecane	*41.8*		*40.0-140*		*04/02/2016 08:47*	WG859943

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	ND		0.100	1	03/30/2016 19:34	WG859662
(S) 2,5-Dibromotoluene(FID)	*82.9*		*70.0-130*		*03/30/2016 19:34*	WG859662
(S) 2,5-Dibromotoluene(PID)	*70.7*		*70.0-130*		*03/30/2016 19:34*	WG859662

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	03/29/2016 18:31	WG860128
(S) α,α,α-Trifluorotoluene(FID)	*99.4*		*62.0-128*		*03/29/2016 18:31*	WG860128

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	04/04/2016 00:37	WG860415
Toluene	ND		0.000500	1	04/04/2016 00:37	WG860415
Ethylbenzene	ND		0.000500	1	04/04/2016 00:37	WG860415
Xylenes, Total	ND		0.00150	1	04/04/2016 00:37	WG860415
Methyl tert-butyl ether	ND		0.000500	1	04/04/2016 00:37	WG860415
Naphthalene	ND		0.000500	1	04/04/2016 00:37	WG860415
1,2-Dichloroethane	ND		0.000500	1	04/04/2016 00:37	WG860415
1,2,4-Trimethylbenzene	ND		0.000500	1	04/04/2016 00:37	WG860415
1,3,5-Trimethylbenzene	ND		0.000500	1	04/04/2016 00:37	WG860415
n-Butylbenzene	ND		0.000500	1	04/04/2016 00:37	WG860415
n-Propylbenzene	ND		0.000500	1	04/04/2016 00:37	WG860415
Isopropylbenzene	ND		0.000500	1	04/04/2016 00:37	WG860415
2-Butanone (MEK)	ND		0.00250	1	04/04/2016 00:37	WG860415
Cyclohexane	ND		0.00100	1	04/04/2016 00:37	WG860415
Methyl Cyclohexane	ND		0.00100	1	04/04/2016 00:37	WG860415
(S) Toluene-d8	*100*		*90.0-115*		*04/04/2016 00:37*	WG860415
(S) Dibromofluoromethane	*97.1*		*79.0-121*		*04/04/2016 00:37*	WG860415
(S) 4-Bromofluorobenzene	*93.7*		*80.1-120*		*04/04/2016 00:37*	WG860415

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	ND		0.100	1	04/02/2016 09:11	WG859943
(S) 1-Chloro-octadecane	*44.2*		*40.0-140*		*04/02/2016 09:11*	WG859943

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	ND		0.100	1	03/30/2016 20:08	WG859662
(S) 2,5-Dibromotoluene(FID)	*83.4*		*70.0-130*		*03/30/2016 20:08*	WG859662
(S) 2,5-Dibromotoluene(PID)	*71.0*		*70.0-130*		*03/30/2016 20:08*	WG859662

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	03/29/2016 18:52	WG860128
(S) a,a,a-Trifluorotoluene(FID)	*99.3*		*62.0-128*		*03/29/2016 18:52*	WG860128

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	04/04/2016 00:55	WG860415
Toluene	ND		0.000500	1	04/04/2016 00:55	WG860415
Ethylbenzene	ND		0.000500	1	04/04/2016 00:55	WG860415
Xylenes, Total	ND		0.00150	1	04/04/2016 00:55	WG860415
Methyl tert-butyl ether	ND		0.000500	1	04/04/2016 00:55	WG860415
Naphthalene	ND		0.000500	1	04/04/2016 00:55	WG860415
1,2-Dichloroethane	ND		0.000500	1	04/04/2016 00:55	WG860415
1,2,4-Trimethylbenzene	ND		0.000500	1	04/04/2016 00:55	WG860415
1,3,5-Trimethylbenzene	ND		0.000500	1	04/04/2016 00:55	WG860415
n-Butylbenzene	ND		0.000500	1	04/04/2016 00:55	WG860415
n-Propylbenzene	ND		0.000500	1	04/04/2016 00:55	WG860415
Isopropylbenzene	ND		0.000500	1	04/04/2016 00:55	WG860415
2-Butanone (MEK)	ND		0.00250	1	04/04/2016 00:55	WG860415
Cyclohexane	ND		0.00100	1	04/04/2016 00:55	WG860415
Methyl Cyclohexane	ND		0.00100	1	04/04/2016 00:55	WG860415
(S) Toluene-d8	*103*		*90.0-115*		*04/04/2016 00:55*	WG860415
(S) Dibromofluoromethane	*98.2*		*79.0-121*		*04/04/2016 00:55*	WG860415
(S) 4-Bromofluorobenzene	*97.7*		*80.1-120*		*04/04/2016 00:55*	WG860415

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	ND		0.100	1	04/02/2016 09:36	WG859943
(S) 1-Chloro-octadecane	*47.1*		*40.0-140*		*04/02/2016 09:36*	WG859943

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	2.05		0.100	1	03/30/2016 20:41	WG859662
(S) 2,5-Dibromotoluene(FID)	*85.4*		*70.0-130*		*03/30/2016 20:41*	WG859662
(S) 2,5-Dibromotoluene(PID)	*72.2*		*70.0-130*		*03/30/2016 20:41*	WG859662

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	3.03		0.100	1	03/29/2016 19:13	WG860128
(S) α,α,α-Trifluorotoluene(FID)	*87.7*		*62.0-128*		*03/29/2016 19:13*	WG860128

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.338		0.00250	5	04/05/2016 00:58	WG861140
Toluene	0.0464		0.000500	1	04/04/2016 01:13	WG860415
Ethylbenzene	0.0226		0.000500	1	04/04/2016 01:13	WG860415
Xylenes, Total	0.0699		0.00150	1	04/04/2016 01:13	WG860415
Methyl tert-butyl ether	ND		0.000500	1	04/04/2016 01:13	WG860415
Naphthalene	0.00584		0.000500	1	04/04/2016 01:13	WG860415
1,2-Dichloroethane	ND		0.000500	1	04/04/2016 01:13	WG860415
1,2,4-Trimethylbenzene	0.0431		0.000500	1	04/04/2016 01:13	WG860415
1,3,5-Trimethylbenzene	0.00223		0.000500	1	04/04/2016 01:13	WG860415
n-Butylbenzene	ND		0.000500	1	04/04/2016 01:13	WG860415
n-Propylbenzene	0.00222		0.000500	1	04/04/2016 01:13	WG860415
Isopropylbenzene	0.00467		0.000500	1	04/04/2016 01:13	WG860415
2-Butanone (MEK)	ND		0.00250	1	04/04/2016 01:13	WG860415
Cyclohexane	0.0821	E	0.00100	1	04/04/2016 01:13	WG860415
Methyl Cyclohexane	0.00918		0.00100	1	04/04/2016 01:13	WG860415
(S) Toluene-d8	*100*		*90.0-115*		*04/04/2016 01:13*	WG860415
(S) Dibromofluoromethane	*90.2*		*79.0-121*		*04/04/2016 01:13*	WG860415
(S) 4-Bromofluorobenzene	*97.6*		*80.1-120*		*04/04/2016 01:13*	WG860415

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	1.27		0.100	1	04/02/2016 10:01	WG859943
(S) 1-Chloro-octadecane	*58.5*		*40.0-140*		*04/02/2016 10:01*	WG859943

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	0.563		0.100	1	03/30/2016 21:14	WG859662
(S) 2,5-Dibromotoluene(FID)	*85.3*		*70.0-130*		*03/30/2016 21:14*	WG859662
(S) 2,5-Dibromotoluene(PID)	*72.1*		*70.0-130*		*03/30/2016 21:14*	WG859662

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.923		0.100	1	03/29/2016 19:34	WG860128
(S) α,α,α-Trifluorotoluene(FID)	*92.9*		*62.0-128*		*03/29/2016 19:34*	WG860128

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.107		0.000500	1	04/04/2016 01:32	WG860415
Toluene	0.0107		0.000500	1	04/04/2016 01:32	WG860415
Ethylbenzene	0.0628		0.000500	1	04/04/2016 01:32	WG860415
Xylenes, Total	0.0135		0.00150	1	04/04/2016 01:32	WG860415
Methyl tert-butyl ether	ND		0.000500	1	04/04/2016 01:32	WG860415
Naphthalene	0.00365		0.000500	1	04/04/2016 01:32	WG860415
1,2-Dichloroethane	ND		0.000500	1	04/04/2016 01:32	WG860415
1,2,4-Trimethylbenzene	0.0116		0.000500	1	04/04/2016 01:32	WG860415
1,3,5-Trimethylbenzene	0.00266		0.000500	1	04/04/2016 01:32	WG860415
n-Butylbenzene	ND		0.000500	1	04/04/2016 01:32	WG860415
n-Propylbenzene	0.00484		0.000500	1	04/04/2016 01:32	WG860415
Isopropylbenzene	0.00227		0.000500	1	04/04/2016 01:32	WG860415
2-Butanone (MEK)	ND		0.00250	1	04/04/2016 01:32	WG860415
Cyclohexane	0.0214	E	0.00100	1	04/04/2016 01:32	WG860415
Methyl Cyclohexane	0.00251		0.00100	1	04/04/2016 01:32	WG860415
(S) Toluene-d8	*103*		*90.0-115*		*04/04/2016 01:32*	WG860415
(S) Dibromofluoromethane	*97.8*		*79.0-121*		*04/04/2016 01:32*	WG860415
(S) 4-Bromofluorobenzene	*99.4*		*80.1-120*		*04/04/2016 01:32*	WG860415

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	0.150		0.100	1	04/02/2016 10:26	WG859943
(S) 1-Chloro-octadecane	*43.1*		*40.0-140*		*04/02/2016 10:26*	WG859943

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	ND		0.100	1	03/30/2016 21:47	WG859662
(S) 2,5-Dibromotoluene(FID)	*86.0*		*70.0-130*		*03/30/2016 21:47*	WG859662
(S) 2,5-Dibromotoluene(PID)	*72.6*		*70.0-130*		*03/30/2016 21:47*	WG859662

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	03/29/2016 19:55	WG860128
(S) α,α,α-Trifluorotoluene(FID)	*99.2*		*62.0-128*		*03/29/2016 19:55*	WG860128

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00221		0.000500	1	04/02/2016 04:23	WG860420
Toluene	ND		0.000500	1	04/02/2016 04:23	WG860420
Ethylbenzene	0.000875		0.000500	1	04/02/2016 04:23	WG860420
Xylenes, Total	ND		0.00150	1	04/02/2016 04:23	WG860420
Methyl tert-butyl ether	ND		0.000500	1	04/02/2016 04:23	WG860420
Naphthalene	ND		0.000500	1	04/02/2016 04:23	WG860420
1,2-Dichloroethane	ND		0.000500	1	04/02/2016 04:23	WG860420
1,2,4-Trimethylbenzene	ND		0.000500	1	04/02/2016 04:23	WG860420
1,3,5-Trimethylbenzene	ND		0.000500	1	04/02/2016 04:23	WG860420
n-Butylbenzene	ND		0.000500	1	04/02/2016 04:23	WG860420
n-Propylbenzene	ND		0.000500	1	04/02/2016 04:23	WG860420
Isopropylbenzene	ND		0.000500	1	04/02/2016 04:23	WG860420
2-Butanone (MEK)	ND		0.00250	1	04/02/2016 04:23	WG860420
Cyclohexane	ND		0.00100	1	04/02/2016 04:23	WG860420
Methyl Cyclohexane	ND		0.00100	1	04/02/2016 04:23	WG860420
(S) Toluene-d8	*104*		*90.0-115*		*04/02/2016 04:23*	WG860420
(S) Dibromofluoromethane	*94.8*		*79.0-121*		*04/02/2016 04:23*	WG860420
(S) 4-Bromofluorobenzene	*111*		*80.1-120*		*04/02/2016 04:23*	WG860420

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	ND		0.100	1	04/02/2016 10:51	WG859943
(S) 1-Chloro-octadecane	*52.4*		*40.0-140*		*04/02/2016 10:51*	WG859943

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	ND		0.100	1	03/30/2016 22:21	WG859662
(S) 2,5-Dibromotoluene(FID)	*82.8*		*70.0-130*		*03/30/2016 22:21*	WG859662
(S) 2,5-Dibromotoluene(PID)	*70.1*		*70.0-130*		*03/30/2016 22:21*	WG859662

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	03/29/2016 15:40	WG860156
(S) α,α,α-Trifluorotoluene(FID)	*96.6*		*62.0-128*		*03/29/2016 15:40*	WG860156

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	04/02/2016 04:44	WG860420
Toluene	ND		0.000500	1	04/02/2016 04:44	WG860420
Ethylbenzene	ND		0.000500	1	04/02/2016 04:44	WG860420
Xylenes, Total	ND		0.00150	1	04/02/2016 04:44	WG860420
Methyl tert-butyl ether	ND		0.000500	1	04/02/2016 04:44	WG860420
Naphthalene	ND		0.000500	1	04/02/2016 04:44	WG860420
1,2-Dichloroethane	ND		0.000500	1	04/02/2016 04:44	WG860420
1,2,4-Trimethylbenzene	ND		0.000500	1	04/02/2016 04:44	WG860420
1,3,5-Trimethylbenzene	ND		0.000500	1	04/02/2016 04:44	WG860420
n-Butylbenzene	ND		0.000500	1	04/02/2016 04:44	WG860420
n-Propylbenzene	ND		0.000500	1	04/02/2016 04:44	WG860420
Isopropylbenzene	ND		0.000500	1	04/02/2016 04:44	WG860420
2-Butanone (MEK)	ND		0.00250	1	04/02/2016 04:44	WG860420
Cyclohexane	ND		0.00100	1	04/02/2016 04:44	WG860420
Methyl Cyclohexane	ND		0.00100	1	04/02/2016 04:44	WG860420
(S) Toluene-d8	*103*		*90.0-115*		*04/02/2016 04:44*	WG860420
(S) Dibromofluoromethane	*95.1*		*79.0-121*		*04/02/2016 04:44*	WG860420
(S) 4-Bromofluorobenzene	*109*		*80.1-120*		*04/02/2016 04:44*	WG860420

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	0.136		0.100	1	04/02/2016 11:15	WG859943
(S) 1-Chloro-octadecane	*41.1*		*40.0-140*		*04/02/2016 11:15*	WG859943

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.262		0.00500	10	04/02/2016 05:05	WG860420
Toluene	ND		0.00500	10	04/02/2016 05:05	WG860420
Ethylbenzene	0.0229		0.00500	10	04/02/2016 05:05	WG860420
Xylenes, Total	ND		0.0150	10	04/02/2016 05:05	WG860420
Methyl tert-butyl ether	ND		0.00500	10	04/02/2016 05:05	WG860420
Naphthalene	0.0205		0.00500	10	04/02/2016 05:05	WG860420
1,2-Dichloroethane	ND		0.00500	10	04/02/2016 05:05	WG860420
1,2,4-Trimethylbenzene	0.0924		0.00500	10	04/02/2016 05:05	WG860420
1,3,5-Trimethylbenzene	0.00665		0.00500	10	04/02/2016 05:05	WG860420
n-Butylbenzene	ND		0.00500	10	04/02/2016 05:05	WG860420
n-Propylbenzene	0.00606		0.00500	10	04/02/2016 05:05	WG860420
Isopropylbenzene	ND		0.00500	10	04/02/2016 05:05	WG860420
2-Butanone (MEK)	ND		0.0250	10	04/02/2016 05:05	WG860420
Cyclohexane	ND		0.0100	10	04/02/2016 05:05	WG860420
Methyl Cyclohexane	ND		0.0100	10	04/02/2016 05:05	WG860420
(S) Toluene-d8	*102*		*90.0-115*		*04/02/2016 05:05*	WG860420
(S) Dibromofluoromethane	*93.6*		*79.0-121*		*04/02/2016 05:05*	WG860420
(S) 4-Bromofluorobenzene	*112*		*80.1-120*		*04/02/2016 05:05*	WG860420

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	04/02/2016 03:00	WG860420
Toluene	ND		0.000500	1	04/02/2016 03:00	WG860420
Ethylbenzene	ND		0.000500	1	04/02/2016 03:00	WG860420
Xylenes, Total	ND		0.00150	1	04/02/2016 03:00	WG860420
Methyl tert-butyl ether	ND		0.000500	1	04/02/2016 03:00	WG860420
Naphthalene	ND		0.000500	1	04/02/2016 03:00	WG860420
1,2-Dichloroethane	ND		0.000500	1	04/02/2016 03:00	WG860420
1,2,4-Trimethylbenzene	ND		0.000500	1	04/02/2016 03:00	WG860420
1,3,5-Trimethylbenzene	ND		0.000500	1	04/02/2016 03:00	WG860420
n-Butylbenzene	ND		0.000500	1	04/02/2016 03:00	WG860420
n-Propylbenzene	ND		0.000500	1	04/02/2016 03:00	WG860420
Isopropylbenzene	ND		0.000500	1	04/02/2016 03:00	WG860420
2-Butanone (MEK)	ND		0.00250	1	04/02/2016 03:00	WG860420
Cyclohexane	ND		0.00100	1	04/02/2016 03:00	WG860420
Methyl Cyclohexane	ND		0.00100	1	04/02/2016 03:00	WG860420
(S) Toluene-d8	*104*		*90.0-115*		*04/02/2016 03:00*	WG860420
(S) Dibromofluoromethane	*91.1*		*79.0-121*		*04/02/2016 03:00*	WG860420
(S) 4-Bromofluorobenzene	*107*		*80.1-120*		*04/02/2016 03:00*	WG860420

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	ND		0.100	1	04/04/2016 01:22	WG861256
(S) 2,5-Dibromotoluene(FID)	*75.3*		*70.0-130*		*04/04/2016 01:22*	WG861256
(S) 2,5-Dibromotoluene(PID)	*81.2*		*70.0-130*		*04/04/2016 01:22*	WG861256

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	03/31/2016 15:45	WG860845
(S) a,a,a-Trifluorotoluene(FID)	*99.5*		*62.0-128*		*03/31/2016 15:45*	WG860845

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	04/02/2016 05:26	WG860420
Toluene	ND		0.000500	1	04/02/2016 05:26	WG860420
Ethylbenzene	ND		0.000500	1	04/02/2016 05:26	WG860420
Xylenes, Total	ND		0.00150	1	04/02/2016 05:26	WG860420
Methyl tert-butyl ether	ND		0.000500	1	04/02/2016 05:26	WG860420
Naphthalene	ND		0.000500	1	04/02/2016 05:26	WG860420
1,2-Dichloroethane	ND		0.000500	1	04/02/2016 05:26	WG860420
1,2,4-Trimethylbenzene	ND		0.000500	1	04/02/2016 05:26	WG860420
1,3,5-Trimethylbenzene	ND		0.000500	1	04/02/2016 05:26	WG860420
n-Butylbenzene	ND		0.000500	1	04/02/2016 05:26	WG860420
n-Propylbenzene	ND		0.000500	1	04/02/2016 05:26	WG860420
Isopropylbenzene	ND		0.000500	1	04/02/2016 05:26	WG860420
2-Butanone (MEK)	ND		0.00250	1	04/02/2016 05:26	WG860420
Cyclohexane	ND		0.00100	1	04/02/2016 05:26	WG860420
Methyl Cyclohexane	ND		0.00100	1	04/02/2016 05:26	WG860420
(S) Toluene-d8	*102*		*90.0-115*		*04/02/2016 05:26*	WG860420
(S) Dibromofluoromethane	*96.0*		*79.0-121*		*04/02/2016 05:26*	WG860420
(S) 4-Bromofluorobenzene	*110*		*80.1-120*		*04/02/2016 05:26*	WG860420

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	9.31		0.100	1	03/29/2016 20:22	WG859958
(S) 1-Chloro-octadecane	*57.8*		*40.0-140*		*03/29/2016 20:22*	WG859958

Volatile Petroleum Hydrocarbons by Method 8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
LRH (C5-C8)	ND		0.100	1	04/05/2016 14:44	WG861665
(S) 2,5-Dibromotoluene(FID)	*74.4*		*70.0-130*		*04/05/2016 14:44*	WG861665
(S) 2,5-Dibromotoluene(PID)	*79.7*		*70.0-130*		*04/05/2016 14:44*	WG861665

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	03/31/2016 16:06	WG860845
(S) α,α,α-Trifluorotoluene(FID)	*102*		*62.0-128*		*03/31/2016 16:06*	WG860845

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00618		0.000500	1	04/02/2016 05:47	WG860420
Toluene	0.00252		0.000500	1	04/02/2016 05:47	WG860420
Ethylbenzene	0.00443		0.000500	1	04/02/2016 05:47	WG860420
Xylenes, Total	0.00446		0.00150	1	04/02/2016 05:47	WG860420
Methyl tert-butyl ether	ND		0.000500	1	04/02/2016 05:47	WG860420
Naphthalene	0.00324		0.000500	1	04/02/2016 05:47	WG860420
1,2-Dichloroethane	ND		0.000500	1	04/02/2016 05:47	WG860420
1,2,4-Trimethylbenzene	0.00433		0.000500	1	04/02/2016 05:47	WG860420
1,3,5-Trimethylbenzene	0.00205		0.000500	1	04/02/2016 05:47	WG860420
n-Butylbenzene	ND		0.000500	1	04/02/2016 05:47	WG860420
n-Propylbenzene	0.00129		0.000500	1	04/02/2016 05:47	WG860420
Isopropylbenzene	0.000945		0.000500	1	04/02/2016 05:47	WG860420
2-Butanone (MEK)	ND		0.00250	1	04/02/2016 05:47	WG860420
Cyclohexane	0.00399		0.00100	1	04/02/2016 05:47	WG860420
Methyl Cyclohexane	ND		0.00100	1	04/02/2016 05:47	WG860420
(S) Toluene-d8	*104*		*90.0-115*		*04/02/2016 05:47*	WG860420
(S) Dibromofluoromethane	*96.0*		*79.0-121*		*04/02/2016 05:47*	WG860420
(S) 4-Bromofluorobenzene	*110*		*80.1-120*		*04/02/2016 05:47*	WG860420

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
MRH (C9-C18)	ND		0.100	1	03/29/2016 20:47	WG859958
(S) 1-Chloro-octadecane	*77.1*		*40.0-140*		*03/29/2016 20:47*	WG859958

QUALITY CONTROL SUMMARY

L825714-03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19,20

Method Blank (MB)

(MB) R3125378-3 03/30/16 10:42

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
LRH (C5-C8)	U		0.00931	0.100
(S) 2,5-Dibromotoluene(FID)	*83.4*			*70.0-130*
(S) 2,5-Dibromotoluene(PID)	*71.6*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3125378-1 03/30/16 09:02 • (LCSD) R3125378-2 03/30/16 09:35

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
LRH (C5-C8)	1.20	1.37	1.33	114	111	70.0-130			2.52	25
(S) 2,5-Dibromotoluene(FID)				*84.5*	*86.4*	*70.0-130*				
(S) 2,5-Dibromotoluene(PID)				*72.8*	*74.4*	*70.0-130*				

QUALITY CONTROL SUMMARY

L825714-01,02,23

Method Blank (MB)

(MB) R3126082-3 04/03/16 22:31

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
LRH (C5-C8)	0.0231		0.00931	0.100
(S) 2,5-Dibromotoluene(FID)	*74.7*			*70.0-130*
(S) 2,5-Dibromotoluene(PID)	*80.4*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3126082-1 04/03/16 19:38 • (LCSD) R3126082-2 04/03/16 20:21

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
LRH (C5-C8)	1.20	1.13	1.13	94.5	94.2	70.0-130			0.300	25
(S) 2,5-Dibromotoluene(FID)				*83.8*	*77.1*	*70.0-130*				
(S) 2,5-Dibromotoluene(PID)				*90.6*	*84.2*	*70.0-130*				

QUALITY CONTROL SUMMARY

L825714-24

Method Blank (MB)

(MB) R3126647-3 04/05/16 12:56

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
LRH (C5-C8)	0.0241		0.00931	0.100
(S) 2,5-Dibromotoluene(FID)	*71.5*			*70.0-130*
(S) 2,5-Dibromotoluene(PID)	*78.4*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3126647-1 04/05/16 09:59 • (LCSD) R3126647-2 04/05/16 10:43

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
LRH (C5-C8)	1.20	1.05	1.02	87.7	84.9	70.0-130			3.29	25
(S) 2,5-Dibromotoluene(FID)				*79.5*	*71.6*	*70.0-130*				
(S) 2,5-Dibromotoluene(PID)				*87.3*	*78.7*	*70.0-130*				

QUALITY CONTROL SUMMARY

L825714-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19

Method Blank (MB)

(MB) R3124682-3 03/29/16 10:57

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*99.7*			*62.0-128*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3124682-1 03/29/16 09:54 • (LCSD) R3124682-2 03/29/16 10:15

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	6.74	6.59	123	120	67.0-132			2.32	20
(S) a,a,a-Trifluorotoluene(FID)				*98.6*	*98.8*	*62.0-128*				

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L825714-02 03/29/16 11:55 • (MS) R3124682-4 03/29/16 12:57 • (MSD) R3124682-5 03/29/16 13:18

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	ND	8.51	6.73	155	122	1	50.0-143	J5	J3	23.4	20
(S) a,a,a-Trifluorotoluene(FID)					*102*	*102*		*62.0-128*				

QUALITY CONTROL SUMMARY

L825714-20

Method Blank (MB)

(MB) R3124808-3 03/29/16 14:44

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*96.6*			*62.0-128*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3124808-1 03/29/16 13:37 • (LCSD) R3124808-2 03/29/16 13:59

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.69	5.79	104	105	67.0-132			1.66	20
(S) a,a,a-Trifluorotoluene(FID)				*102*	*103*	*62.0-128*				

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L825714-20 03/29/16 15:40 • (MS) R3124808-4 03/29/16 16:03 • (MSD) R3124808-5 03/29/16 16:25

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	0.0192	5.49	5.83	99.4	106	1	50.0-143			6.10	20
(S) a,a,a-Trifluorotoluene(FID)					*103*	*104*		*62.0-128*				

Method Blank (MB)

(MB) R3125293-3 03/31/16 11:40

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*99.6*			*62.0-128*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3125293-1 03/31/16 10:37 • (LCSD) R3125293-2 03/31/16 10:58

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) Low Fraction	5.50	6.15	6.09	112	111	67.0-132			0.940	20
(S) a,a,a-Trifluorotoluene(FID)				*101*	*101*	*62.0-128*				

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L825993-16 03/31/16 13:39 • (MS) R3125293-4 03/31/16 14:00 • (MSD) R3125293-5 03/31/16 14:21

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
TPH (GC/FID) Low Fraction	5.50	ND	6.16	6.59	112	120	1	50.0-143			6.63	20
(S) a,a,a-Trifluorotoluene(FID)					*101*	*99.6*		*62.0-128*				

Method Blank (MB)

(MB) R3126062-3 04/03/16 17:43

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000896	0.000500
n-Butylbenzene	U		0.000143	0.000500
Cyclohexane	U		0.000390	0.00100
1,2-Dichloroethane	U		0.000108	0.000500
Ethylbenzene	U		0.000158	0.000500
Isopropylbenzene	U		0.000126	0.000500
2-Butanone (MEK)	U		0.00128	0.00250
Methyl Cyclohexane	U		0.000380	0.00100
Methyl tert-butyl ether	U		0.000102	0.000500
Naphthalene	U		0.000174	0.000500
n-Propylbenzene	U		0.000162	0.000500
Toluene	U		0.000102	0.000500
1,2,4-Trimethylbenzene	U		0.000123	0.000500
1,3,5-Trimethylbenzene	U		0.000124	0.000500
Xylenes, Total	U		0.000316	0.00150
(S) Toluene-d8	*100*			*90.0-115*
(S) Dibromofluoromethane	*101*			*79.0-121*
(S) 4-Bromofluorobenzene	*96.8*			*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3126062-1 04/03/16 16:11 • (LCSD) R3126062-2 04/03/16 16:29

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0250	0.0199	0.0203	79.4	81.3	73.0-122			2.39	20
n-Butylbenzene	0.0250	0.0215	0.0229	86.0	91.7	75.9-134			6.43	20
1,2-Dichloroethane	0.0250	0.0207	0.0211	83.0	84.2	65.3-126			1.48	20
Ethylbenzene	0.0250	0.0218	0.0226	87.2	90.4	80.9-121			3.62	20
Isopropylbenzene	0.0250	0.0220	0.0222	88.0	88.7	81.6-124			0.840	20
2-Butanone (MEK)	0.125	0.0880	0.0901	70.4	72.1	46.4-155			2.40	20
Methyl tert-butyl ether	0.0250	0.0199	0.0198	79.8	79.1	70.1-125			0.870	20
Naphthalene	0.0250	0.0203	0.0216	81.1	86.6	69.7-134			6.52	20
n-Propylbenzene	0.0250	0.0218	0.0218	87.3	87.3	81.9-122			0.0300	20
Toluene	0.0250	0.0210	0.0216	83.8	86.5	77.9-116			3.13	20
1,2,4-Trimethylbenzene	0.0250	0.0222	0.0217	88.8	86.9	79.0-122			2.18	20
1,3,5-Trimethylbenzene	0.0250	0.0214	0.0216	85.7	86.2	81.0-123			0.570	20

QUALITY CONTROL SUMMARY

L825714-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3126062-1 04/03/16 16:11 • (LCSD) R3126062-2 04/03/16 16:29

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Xylenes, Total	0.0750	0.0673	0.0667	89.7	88.9	79.2-122			0.830	20
(S) Toluene-d8				*102*	*101*	*90.0-115*				
(S) Dibromofluoromethane				*93.1*	*94.9*	*79.0-121*				
(S) 4-Bromofluorobenzene				*93.9*	*93.1*	*80.1-120*				

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L825677-09 04/03/16 20:03 • (MS) R3126062-4 04/03/16 18:50 • (MSD) R3126062-5 04/03/16 19:08

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.0250	0.000243	0.0205	0.0217	81.2	85.8	1	58.6-133			5.49	20
n-Butylbenzene	0.0250	ND	0.0233	0.0257	93.4	103	1	64.8-145			9.55	20
1,2-Dichloroethane	0.0250	ND	0.0223	0.0239	89.1	95.5	1	60.7-132			6.89	20
Ethylbenzene	0.0250	0.000224	0.0233	0.0248	92.5	98.5	1	62.7-136			6.20	20
Isopropylbenzene	0.0250	ND	0.0228	0.0249	91.0	99.5	1	67.4-136			8.93	20
2-Butanone (MEK)	0.125	ND	0.0734	0.0929	58.7	74.3	1	45.0-156		J3	23.4	20.8
Methyl tert-butyl ether	0.0250	ND	0.0212	0.0228	84.6	91.3	1	61.4-136			7.60	20
Naphthalene	0.0250	0.000200	0.0214	0.0261	84.8	104	1	61.8-143			19.8	20
n-Propylbenzene	0.0250	ND	0.0234	0.0247	93.6	98.7	1	63.2-139			5.31	20
Toluene	0.0250	0.000294	0.0218	0.0224	86.1	88.4	1	67.8-124			2.60	20
1,2,4-Trimethylbenzene	0.0250	0.000368	0.0234	0.0256	92.2	101	1	60.5-137			8.96	20
1,3,5-Trimethylbenzene	0.0250	0.000167	0.0225	0.0255	89.3	101	1	67.9-134			12.4	20
Xylenes, Total	0.0750	0.00176	0.0728	0.0741	94.7	96.5	1	65.6-133			1.84	20
(S) Toluene-d8					*99.1*	*99.0*		*90.0-115*				
(S) Dibromofluoromethane					*93.7*	*94.8*		*79.0-121*				
(S) 4-Bromofluorobenzene					*94.8*	*95.3*		*80.1-120*				

Method Blank (MB)

(MB) R3125995-3 04/02/16 01:16

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000896	0.000500
n-Butylbenzene	U		0.000143	0.000500
Cyclohexane	U		0.000390	0.00100
1,2-Dichloroethane	U		0.000108	0.000500
Ethylbenzene	U		0.000158	0.000500
Isopropylbenzene	U		0.000126	0.000500
2-Butanone (MEK)	U		0.00128	0.00250
Methyl Cyclohexane	U		0.000380	0.00100
Methyl tert-butyl ether	U		0.000102	0.000500
Naphthalene	U		0.000174	0.000500
n-Propylbenzene	U		0.000162	0.000500
Toluene	U		0.000102	0.000500
1,2,4-Trimethylbenzene	U		0.000123	0.000500
1,3,5-Trimethylbenzene	U		0.000124	0.000500
Xylenes, Total	U		0.000316	0.00150
(S) Toluene-d8	*102*			*90.0-115*
(S) Dibromofluoromethane	*90.8*			*79.0-121*
(S) 4-Bromofluorobenzene	*107*			*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3125995-1 04/01/16 23:32 • (LCSD) R3125995-2 04/01/16 23:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0250	0.0254	0.0267	102	107	73.0-122			5.15	20
n-Butylbenzene	0.0250	0.0219	0.0227	87.6	90.9	75.9-134			3.70	20
1,2-Dichloroethane	0.0250	0.0224	0.0234	89.4	93.5	65.3-126			4.47	20
Ethylbenzene	0.0250	0.0233	0.0242	93.1	96.6	80.9-121			3.76	20
Isopropylbenzene	0.0250	0.0227	0.0238	90.8	95.4	81.6-124			4.90	20
2-Butanone (MEK)	0.125	0.0975	0.0986	78.0	78.9	46.4-155			1.18	20
Methyl tert-butyl ether	0.0250	0.0225	0.0239	90.1	95.5	70.1-125			5.85	20
Naphthalene	0.0250	0.0201	0.0208	80.6	83.4	69.7-134			3.46	20
n-Propylbenzene	0.0250	0.0232	0.0243	92.7	97.2	81.9-122			4.74	20
Toluene	0.0250	0.0248	0.0256	99.2	102	77.9-116			2.98	20
1,2,4-Trimethylbenzene	0.0250	0.0222	0.0237	89.0	94.9	79.0-122			6.46	20
1,3,5-Trimethylbenzene	0.0250	0.0217	0.0229	86.9	91.7	81.0-123			5.44	20

QUALITY CONTROL SUMMARY

L825714-19,20,21,22,23,24

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3125995-1 04/01/16 23:32 • (LCSD) R3125995-2 04/01/16 23:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Xylenes, Total	0.0750	0.0695	0.0714	92.6	95.2	79.2-122			2.81	20
(S) Toluene-d8				*102*	*103*	*90.0-115*				
(S) Dibromofluoromethane				*92.2*	*96.2*	*79.0-121*				
(S) 4-Bromofluorobenzene				*105*	*106*	*80.1-120*				

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L825714-19 04/02/16 04:23 • (MS) R3125995-4 04/02/16 01:58 • (MSD) R3125995-5 04/02/16 02:19

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.0250	0.00221	0.0289	0.0289	107	107	1	58.6-133			0.180	20
n-Butylbenzene	0.0250	ND	0.0228	0.0224	91.4	89.6	1	64.8-145			2.00	20
1,2-Dichloroethane	0.0250	ND	0.0237	0.0233	94.6	93.2	1	60.7-132			1.50	20
Ethylbenzene	0.0250	0.000875	0.0251	0.0258	96.9	99.7	1	62.7-136			2.71	20
Isopropylbenzene	0.0250	ND	0.0245	0.0248	97.9	99.3	1	67.4-136			1.35	20
2-Butanone (MEK)	0.125	ND	0.0973	0.0946	77.8	75.7	1	45.0-156			2.76	20.8
Methyl tert-butyl ether	0.0250	ND	0.0254	0.0239	101	95.6	1	61.4-136			6.00	20
Naphthalene	0.0250	ND	0.0212	0.0209	84.9	83.5	1	61.8-143			1.62	20
n-Propylbenzene	0.0250	ND	0.0247	0.0252	98.8	101	1	63.2-139			1.89	20
Toluene	0.0250	0.000183	0.0257	0.0260	102	103	1	67.8-124			1.15	20
1,2,4-Trimethylbenzene	0.0250	0.000132	0.0243	0.0242	96.6	96.4	1	60.5-137			0.180	20
1,3,5-Trimethylbenzene	0.0250	ND	0.0232	0.0235	92.6	94.1	1	67.9-134			1.54	20
Xylenes, Total	0.0750	ND	0.0725	0.0738	96.7	98.3	1	65.6-133			1.73	20
(S) Toluene-d8					*101*	*102*		*90.0-115*				
(S) Dibromofluoromethane					*95.2*	*94.1*		*79.0-121*				
(S) 4-Bromofluorobenzene					*107*	*109*		*80.1-120*				

QUALITY CONTROL SUMMARY

L825714-01,02,03,04,17

Method Blank (MB)

(MB) R3126254-3 04/04/16 18:15

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000896	0.000500
Toluene	U		0.000102	0.000500
1,2,4-Trimethylbenzene	U		0.000123	0.000500
Xylenes, Total	U		0.000316	0.00150

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3126254-1 04/04/16 16:53 • (LCSD) R3126254-2 04/04/16 17:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0250	0.0213	0.0211	85.3	84.3	73.0-122			1.17	20
Toluene	0.0250	0.0217	0.0212	86.6	84.7	77.9-116			2.26	20
1,2,4-Trimethylbenzene	0.0250	0.0235	0.0233	93.9	93.2	79.0-122			0.700	20
Xylenes, Total	0.0750	0.0725	0.0722	96.6	96.3	79.2-122			0.330	20

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L826472-10 04/05/16 01:18 • (MS) R3126254-4 04/04/16 18:58 • (MSD) R3126254-5 04/04/16 19:18

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.0250	0.000157	0.0208	0.0221	82.6	87.8	1	58.6-133			6.11	20
Toluene	0.0250	0.000199	0.0224	0.0226	88.6	89.8	1	67.8-124			1.30	20
1,2,4-Trimethylbenzene	0.0250	0.000134	0.0242	0.0251	96.3	99.9	1	60.5-137			3.58	20
Xylenes, Total	0.0750	0.000148	0.0734	0.0764	97.9	102	1	65.6-133			3.99	20

QUALITY CONTROL SUMMARY

L825714-01,02,03,04,05,06,07,08,09,10,12,14,15,16,17,18,19,20

Method Blank (MB)

(MB) R3125812-1 04/01/16 11:16

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
MRH (C9-C18)	0.0117		0.00754	0.100
(S) 1-Chloro-octadecane	*53.3*			*40.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3125812-2 04/01/16 11:41 • (LCSD) R3125812-3 04/01/16 12:06

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
MRH (C9-C18)	1.20	1.15	1.14	96.0	94.9	40.0-140			1.08	25
(S) 1-Chloro-octadecane				*58.4*	*62.2*	*40.0-140*				

QUALITY CONTROL SUMMARY

L825714-23,24

Method Blank (MB)

(MB) R3124836-1 03/29/16 15:24

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
MRH (C9-C18)	0.0138		0.00754	0.100
(S) 1-Chloro-octadecane	*113*			*40.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3124836-2 03/29/16 15:49 • (LCSD) R3124836-3 03/29/16 16:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
MRH (C9-C18)	1.20	1.25	1.18	104	97.9	40.0-140			6.17	25
(S) 1-Chloro-octadecane				*96.2*	*90.2*	*40.0-140*				

Method Blank (MB)

(MB) R3126214-1 04/04/16 21:05

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
MRH (C9-C18)	U		0.00754	0.100
(S) 1-Chloro-octadecane	*108*			*40.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3126214-2 04/04/16 21:30 • (LCSD) R3126214-3 04/04/16 21:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
MRH (C9-C18)	1.20	0.962	1.00	80.1	83.5	40.0-140			4.06	25
(S) 1-Chloro-octadecane				*75.4*	*45.3*	*40.0-140*				

Cp
1 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [14]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [na] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**

Apex Companies, LLC- Portland, OR

3015 SW First Avenue
Portland, OR 97201-4707

Billing Information:
Accounts Payable- Cindi Joy Staller
3015 SW First Avenue
Portland, OR 97201-4707

Report to: Samuel Jackson

Email To: SJackson@apexcos.com; TAlfred@apexcos.com; TCochran@apexcos.com

Project Description: Andover Colt Court Release Site

City/State Collected:

Phone: 503-924-4704
Fax: 503-943-6357

Client Project #

Lab Project # ASHCREPOR-NUSTARCOLT

Collected by (print):

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X__Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 3

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L825714

C187

Acctnum: ASHCREPOR
Template: T110556
Prelogin: P545846
TSR: 358 - Jarred Willis
PB: 3/14/16 MB

Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TPHKSLVI (MRH) 40mlAmb-HCl	V8260LL (VOCs 8260) 40mlAmb-HCl	V8260LL- Trip Blank 40mlAmb-HCl-Blk	VPHKS (LRH) 40mlAmb HCl	GRO					Rem./Contaminant	Sample # (lab only)
MW-1	Grab	GW	33.0	3/23/16	1158	8	✓	✓		✓	✓						-01
MW-2		GW	36.0	3/21/16	1616	8	✓	✓		✓	✓						-02
MW-3		GW	37.0	3/23/16	1027	8	✓	✓		✓	✓						-03
MW-4		GW	32.0	3/22/16	1235	8	✓	✓		✓	✓						-04
MW-5		GW	23.0	3/22/16	1520	8	✓	✓		✓	✓						-05
MW-6		GW	24.0	3/22/16	1040	8	✓	✓		✓	✓						-06
MW-7		GW	19.0	3/22/16	1020	8	✓	✓		✓	✓						-07
MW-8		GW	24.0	3/23/16	1105	8	✓	✓		✓	✓						-08
MW-9		GW	32.00	3/22/16	0935	8	✓	✓		✓	✓						-09
MW-10		GW	31.0	3/23/16	0948	8	✓	✓		✓	✓						-10

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: V8260LL= BTEX, 1,2-DCA, Naphthalene, 1,2,4-TMB, 1,3,5-TMB, n-butylbenzene, n-propylbenzene

pH _____ Temp _____
Flow _____ Other _____

6645 0393 2364

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ ____	Condition: (lab use only)
for Burdover	3/24/16	1330			ok
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 1.6 °C Bottles Received: 17 4-oz	COC Seal Intact: ___Y ___N ___NA
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3-25-16 Time: 0900	pH Checked: NCF: X

Apex Companies, LLC- Portland, OR

3015 SW First Avenue
Portland, OR 97201-4707

Billing Information:
Accounts Payable- Cindi Joy Staller
3015 SW First Avenue
Portland, OR 97201-4707

Report to: Samuel Jackson

Email To: SJackson@apexcos.com; TAlfred@apexcos.com; TCochran@apexcos.com

Project Description: Andover Colt Court Release Site

City/State Collected:

Phone: 503-924-4704
Fax: 503-943-6357

Client Project #

Lab Project # ASHCREPOR-NUSTARCOLT

Collected by (print):

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X__Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 2 of 3

ESC LAB SCIENCES

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L825714

Table #

Acctnum: ASHCREPOR
Template: T110556
Prelogin: P545846
TSR: 358 - Jarred Willis
PB: 3-14-16 MW

Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TPHKSLVI (MRH) 40mlAmb-HCl	V8260LL (VOCs 8260) 40mlAmb-HCl	V8260LL- Trip Blank 40mlAmb-HCl-Blk	VPHKS (LRH) 40mlAmb HCl	GRO					Rem./Contaminant	Sample # (lab only)
MW-11	Grab	GW	31.0	3/21/16	1759	8	✓	✓		✓	✓						-11
MW-12		GW	33.0	3/22/16	0850	8	✓	✓		✓	✓						-12
MW-13		GW	33.0	3/21/16	1535	8	✓	✓		✓	✓						-13
MW-14		GW	35.0	3/22/16	0810	8	✓	✓		✓	✓						-14
MW-15		GW	~~1653~~ 33.0	3/21/16	1653	8	✓	✓		✓	✓						-15
MW-16		GW	32.0	3/21/16	1726	8	✓	✓		✓	✓						-16
MW-17		GW	34.0	3/22/16	1111	8	✓	✓		✓	✓						-17
MW-18		GW	33.0	3/22/16	1425	8	✓	✓		✓	✓						-18
MW-19		GW	33.0	3/22/16	1455	8	✓	✓		✓	✓						-19
SVE-2		GW	—	3/23/16	1550	5	✓	✓		✓	✓						-20

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other ___

Remarks:V8260LL= BTEX, 1,2-DCA, Naphthalene, 1,2,4-TMB, 1,3,5-TMB, n-butylbenzene, n-propylbenzene

pH ___ Temp ___
Flow ___ Other ___

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ ___	Condition: (lab use only)
J. Binder	3/24/16	1330			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 1.6 °C Bottles Received: 177=VP	COC Seal Intact: ___Y ___N ___NA
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3-25-16 Time: 0900	pH Checked: / NCF: X

Apex Companies, LLC- Portland, OR

3015 SW First Avenue
Portland, OR 97201-4707

Billing Information:
Accounts Payable- Cindi Joy Staller
3015 SW First Avenue
Portland, OR 97201-4707

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Email To: SJackson@apexcos.com; TAlfred@apexcos.com; TCochran@apexcos.com

Project Description: Andover Colt Court Release Site

City/State Collected:

Phone: 503-924-4704
Fax: 503-943-6357

Client Project #

Lab Project # ASHCREPOR-NUSTARCOLT

Collected by (print):

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y ____

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X__Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 3 of 3

ESC LAB SCIENCES
YOUR LAB OF CHOICE
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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L825714

Table #

Acctnum: ASHCREPOR
Template: T110556
Prelogin: P545846
TSR: 358 - Jarred Willis
PB: 3-14-16 NW
Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TPHKSLVI (MRH) 40mlAmb-HCl	V8260LL (VOCs 8260) 40mlAmb-HCl	V8260LL- Trip Blank 40mlAmb-HCl-Blk	VPHKS (LRH) 40mlAmb HCl	GRO					Rem./Contaminant	Sample # (lab only)
SVE-3	Grab	GW	—	3/23/16	—	0	—				—						
SVE-4	↓	GW	—	3/23/16	1600	3		✓									-21
TRIP BLANK	—	GW	—	—	—	1			✓								-22
TRIP BLANK	—	GW	—	—	—	0			✓								
		GW															
		GW															
		GW															
		GW															
		GW															

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: V8260LL= BTEX, 1,2-DCA, Naphthalene, 1,2,4-TMB, 1,3,5-TMB, n-butylbenzene, n-propylbenzene

pH _____ Temp _____
Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
J. Brodie	3/24/16	1330	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Mark

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____

Temp: 1.6 °C Bottles Received: 177=VP

Date: 3-25-16 Time: 0900

Condition: (lab use only)

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF: X

ESC Lab Sciences
Non-Conformance Form

Login #: L825714	Client: ASHCREPOR	Date: 3/25/16	Evaluated by: Troy Dunlap

Non-Conformance (check applicable items)

	Sample Integrity		Chain of Custody Clarification		
	Parameter(s) past holding time		Login Clarification Needed		**If Broken Container:**
	Improper temperature		Chain of custody is incomplete		Insufficient packing material around container
	Improper container type		Please specify Metals requested.		Insufficient packing material inside cooler
	Improper preservation		Please specify TCLP requested.		Improper handling by carrier (FedEx / UPS / Courie
	Insufficient sample volume.	X	Received additional samples not listed on coc.		Sample was frozen
	Sample is biphasic.		Sample ids on containers do not match ids on coc		Container lid not intact
	Vials received with headspace.		Trip Blank not received.		**If no Chain of Custody:**
	Broken container		Client did not "X" analysis.		Received by:
	Broken container:		Chain of Custody is missing		Date/Time:
	Sufficient sample remains				Temp./Cont. Rec./pH:
					Carrier:
					Tracking#

Login Comments: Received DUP-1 and DUP-4 not listed on the COC.

Client informed by:		Call		Email X		Voice Mail		Date: 3/28/16	Time: 1000
TSR Initials: JW	Client Contact: Sam Jackson								

Login Instructions: Client informed. Log DUP-1 and DUP-4 for V8260LL, VPHKS, TPHKSLVI, and GRO using at least one vial for each analysis. If not enough vials were received, then use one vial for each analysis by logging in the order listed above.

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