hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

Via Email

January 7, 2015

NC DENR
Division of Waste Management
IHSB - REC Program
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

Attn: Mr. Matt Aufman

Re: Quarterly Remedial Progress Report
Trion, Inc. Site
Sanford, Lee County, North Carolina
Site ID No. NONCD0002843

Dear Matt,

On behalf of Air Systems Components, Inc., H&H is pleased to submit this Quarterly Remedial Progress Report for the Trion, Inc. site in Sanford. The required certification pages are included in the document as Appendix A. Please let me know if you have any questions.

Sincerely,

Hart & Hickman, PC

Leonard C. Moretz

Leonard Moretz, PG, RSM
Project Director/Raleigh Office Manager

Attachment

Cc: Jeff Werwie – Johnson Controls, Inc. (via email)

Quarterly Groundwater Monitoring Report Trion, Inc. Facility

101 McNeill Road Sanford, North Carolina

H&H Job No. JCI-001
December 29, 2014

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Quarterly Groundwater Monitoring Report
Trion, Inc. Facility
Sanford, North Carolina
H&H Job No. JCI-001

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Quarterly Groundwater Monitoring Report
Trion, Inc. Facility
Sanford, North Carolina
H&H Job No. JCI-001

1.0 Introduction and Site Background

This is the first Quarterly Groundwater Monitoring Report (GWMR) prepared on behalf of Air Systems Components, Inc. (ASCI) by Hart & Hickman, P.C. (H&H) for groundwater impacted at the Trion, Inc. (Trion) facility and property located at 101 McNeill Road in Sanford, Lee County, North Carolina (Site). The GWMR has been prepared in accordance with an Administrative Agreement (AA) for a voluntary Registered Environmental Consultant (REC)-directed assessment and remedial action executed on September 29, 2014-Directed Assessment and Remedial Action Pursuant to North Carolina General Statutes (N.C.G.S.) 130A-310.9(c) and 15A North Carolina Administrative Code (NCAC) 13C .0300 (Docket No. 10-SF-337) with Department of Environment and Natural Resources (DENR) for voluntary remedial action at the Site under North Carolina's REC Program. Under this AA and in accordance with the rules and requirements of the REC program, ASCI retained H&H as its REC.

The Site is located at 101 McNeill Road in Sanford, Lee County, North Carolina (latitude 35° 30' 52" N, longitude 79° 12' 51" W). The Site consists of approximately 25 acres with a 269,000 square-foot one-story building (Facility) located to the northeast of the intersection of U.S. Route 421 and McNeill Road in Sanford, North Carolina. Mixed industrial and residential properties surround the Site. The Facility consists of office space, a warehouse, and manufacturing space. A paved (asphalt and concrete) driveway, storage area, and loading dock area are present to the rear (east) of the Facility. Investment Recovery Services (IRS) currently owns the adjacent property behind and hydraulically downgradient of the Site. Immediately behind the IRS building is a railroad right of way. A grass/landscaped area and a large pond are located on the northern side of the Facility. The pond was reportedly used for irrigation and fishing purposes and was noted to exist prior to development of the Site. The intermittent stream running from the pond eastward continues in the adjacent IRS property. Figures 1 and 2 depict site location and permanent features of the Site.

Current operations at the Site include manufacturing, assembly, and warehousing of air purification equipment. Manufacturing activities consist of metal stamping, forming of parts, parts washing, painting, welding, air cleaning, unit assembly and packaging, and warehousing prior to shipping. Prior to 1966, the Site was reportedly vacant land. White Consolidated, Inc. (White), formerly Whiting Roberts Company, owned the Site from 1966 until 1984. White manufactured textile equipment at the Site during this period. Air purification equipment has been manufactured at the Site from 1984 to the present.

A remedial investigation (RI) and remedial action plan (RAP) were completed for the site under a separate AA between Fedders Corporation (a bankrupt entity) and the DENR REC Program. The Remedial Investigation (RI) was completed in November 2013 and the RAP was finalized in June 2014. Johnson Controls, Inc. purchased ASCI in June 2014 and as part of the purchase agreement ASCI entered into an AA to implement the RAP. The RI concluded that groundwater at the Site and adjacent property owned by IRS is impacted with low concentrations of the chlorinated volatile organic compound (CVOC) trichloroethene (TCE) and its degradation products cis,1,2-dichloroethene (cDCE), trans-DCE and vinyl chloride (VC); however, the plume is adequately defined. The RAP evaluated various remedial options and the selected remedy for groundwater remediation was monitored natural attenuation (MNA). The detailed site history and data are documented in numerous previous reports and therefore is not repeated here.

The objective of the GW-RAP is to bring TCE and its degradation products (cDCE, tDCE, and VC) below the current 2L groundwater standards for an industrial/commercial facility that does not supply private well drinking water or impact public water systems. This report summarizes results of the first quarterly groundwater sampling event since approval of the GW-RAP. H&H prepared this GWMR describing the methods and results of quarterly groundwater monitoring activities conducted in October 2014 at the Trion, Inc. facility. The required certifications from the Remediating Party (ASCI) and REC (H&H) are included as Appendix A.

2.0 Groundwater Monitoring

2.1 Groundwater Flow

Groundwater elevation data were collected from sixteen site monitoring wells (TMW-1, TMW-3 through TMW-5, MW-6, MW-7, MW-8, MW-10 through MW-17 and DMW-1) on October 23, 2014. Groundwater at the site generally flows in a northeasterly direction following general surface topography. A surficial aquifer potentiometric surface map generated from the October 2014 gauging data is provided as Figure 3. These data are consistent with previously collected site data. A summary of current and historic groundwater elevation data is provided in Table 1.

2.2 Groundwater Quality Sampling

Groundwater sampling was conducted by H&H on October 23, 2014. Samples were collected from nine monitoring wells (TMW-1, TMW-4, DMW-1, MW-7, MW-8, MW-13, MW-14, MW-16, and MW-17) in accordance with the NCDENR-approved RAP, dated June 2014. Samples from each well were analyzed for volatile organic compounds (VOCs) by EPA Method 8260B, and MNA indicator parameters including: chlorides, sulfates, and nitrates by EPA Method 9056A, methane, ethane and ethane by EPA Method RSK-175, ferrous iron by HACH field test kit, and total organic carbon (TOC) by standard method 5310B.

Low-flow purging and sampling techniques were employed using a peristaltic pump and dedicated tubing. Field measurements of pH, specific conductivity, temperature, dissolved oxygen (DO), turbidity, pumping rate, and water level were recorded at five minute intervals. Purging was considered complete when stabilization of the field parameters occurred. Groundwater samples were then collected for VOC analysis using the purge and trap method. Water generated during the purging and sampling process was discharged into a 55-gallon drum. Groundwater sampling forms are provided in Appendix B.

Laboratory-supplied, properly preserved sample bottles were used for sample collection. A chain-of-custody record was completed for samples collected which included sample description, date collected, time collected, matrix, sample container information, and analyses required. The

chain-of-custody was signed by H&H and placed along with the samples in an iced cooler for delivery to Prism Laboratories, Inc. (Prism) of Charlotte, NC, a North Carolina-certified laboratory.

3.0 Sampling Results

The October 2014 groundwater analytical results are included on Table 2 and depicted on Figure 4. For comparison purposes, historical groundwater data are included on Table 3. The laboratory analytical report and chain-of-custody documentation are provided in Appendix C. Appendix D presents contaminant concentration trend graphs (stoichiometry shown in molar concentrations to avoid density bias) for monitoring wells TMW-4, MW-8, and MW-13, the only wells to exhibit VOC constituent concentrations above 2L Standards.

3.1 VOCS

CVOCs were detected above NCAC 2L Standards in three monitoring wells during the October 2014 event, including source area monitoring well MW-8, and downgradient monitoring wells TMW-4, and MW-13. CVOCs were detected below 2L Standards in downgradient monitoring well MW-17. Monitoring wells TMW-1, MW-7, DMW-1, MW-14, and MW-16 continued to be non-detect for CVOCs. See Table 2 for reference.

The main contaminant of concern (COC), TCE, was detected above its 2L Standard in three monitoring wells, and its degradation product, cDCE, was detected above its 2L Standard in one monitoring well during the October 2014 sampling event. Of these detections, monitoring wells MW-13 and MW-8 demonstrated reductions in TCE as compared to historical data (Table 3). The TCE concentration in TMW-4 remained stable as compared to historical data. Of these three wells, MW-8 demonstrated a reduction in cDCE whereas MW-17, MW-13, and TMW-4 showed an increase in cDCE. Increases in cDCE downgradient coupled with overall decreases in parent compound (TCE) concentrations show that dechlorination is occurring onsite. See Appendix D for graphs of constituent concentrations over time.

VC is an anaerobic biodegradation product which is produced as TCE and cDCE sequentially degrade (see Biotic Degradation Pathway of TCE on the following page). VC was not detected during the October 2014 sampling event; however, detections may occur in future sampling events as TCE and cDCE are naturally degraded.

Biotic Degradation Pathway of TCE:

TCE → DCE Isomers → VC $_{(g)}$ → Ethene $_{(g)}$

(DCE Isomers: predominantly cis-1,2, also trans-1,2 and 1,1)

Other intermediate degradation product CVOCs were not detected above 2L Standards in October 2014 (trans-1,2-dichloroethene (trans-1,2-DCE)).

A summary of the October 2014 VOC data is provided below:

- Monitoring wells in exceedance of the 2L standards for TCE demonstrate stable (TMW-4) or decreasing concentrations as compared to historical data (downgradeint monitoring well MW-13 and source area monitoring well MW-8). Source area monitoring well MW-8 also exceeds its 2L standard for cDCE, which is decreasing in comparison with historical data.
- Well MW-17 continues to contain low concentrations of cDCE and TCE below their respective 2L standards, and they are not increasing.
- All other monitoring wells sampled during the October 2014 event reported non-detect for all CVOCs.
- Figure 5 illustrates the observed extent of the CVOC plume above 2L Standards.

3.2 MNA Indicator Parameters

Water quality parameters measured in October 2014 were indicative of an anoxic groundwater environment within the plume, trending towards a favorable anaerobic environment for reductive dechlorination (Table 3).

Dissolved oxygen measurements ranged from 0.23 mg/L (MW-7) to 3.55 mg/L (MW-13) and ORP ranged from 261.2 mV (MW-16) to -72.1 mV (TMW-1) indicating a range of oxic, anoxic, and reductive conditions favorable for biodegradation of CVOCs (Table 4 and Table 5). Deep monitoring well DMW-1 demonstrated higher DO (6.19 mg/L) than the other wells.

Overall site pH values remain favorable for reductive dechlorination. Values ranged from 5.83 (MW-17) to 9.82 (MW-14). MW-14, and possibly DMW-1 demonstrate a higher than average ambient pH for soils; this may be due to residual grout from well construction. Lower pH downgradient (MW-17) is indicative of high dechlorination rates.

As CVOCs biodegrade, chloride ions are released resulting in increased chloride concentrations. Chloride was detected in all monitoring wells ranging from 16 mg/L (MW-13) to 3.6 (DMW-1). In October 2014, downgradient monitoring wells MW-13 and MW-17 demonstrated higher chloride than historically detected. In downgradient monitoring well TMW-1 and source area monitoring well MW-8 chloride production remained stable (both at 13 mg/L). For others wells this is the first chloride data to date (DMW-1, TMW-4, MW-7, MW-14, and MW-16). Because chloride is highly soluble, migration from areas of high degradation can be seen. Chloride production at the site, notably MW-13 and MW-17, confirms that reductive dechlorination is occurring, coupled with an increase in cDCE production in these wells.

The presence of methane above background conditions indicates microbial degradation (methanogenisis) is occurring and strongly reducing conditions have been established. Methanogenisis can facilitate cometabolic degradation of TCE to VC. The fastest rates of anaerobic dechlorination typically occur under methanogenic conditions. Historically, methane was not detected in any monitoring wells; however, during the October 2014 sampling event methane was detected in one monitoring well (TMW-1) at 3.41 µg/L.

TOC provides a carbon source to drive the reductive dechlorination of chlorinated solvents. TOC concentrations greater than 20 mg/L are considered ideal for biodegradation of chlorinated solvents. Multiple wells during the October 2014 sampling event had measurable TOC ranging from 1.1 mg/L (MW-13) to 3.1 mg/L (TMW-1). TOC concentrations in monitoring wells with detections have not changed significantly as compared to historic data.

Ferrous iron is produced during iron reduction, early in the anaerobic process. Thus, increases in ferrous iron are indicative of anaerobic conditions favorable for reductive dechlorination.

Ferrous iron appeared in multiple wells (MW-7, MW-14, and MW-16) which historically did not demonstrate ferrous iron.. All other monitoring wells were non-detect for ferrous iron.

Sulfide is the oxidized form of sulfate, therefore lowering concentrations of sulfate are indicative of reducing conditions. Sulfate reduction occurs after iron reduction, indicating lower redox conditions. Sulfate decreased in multiple wells (source area well MW-8, and downgradient monitoring wells MW-17, MW-13, and TMW-1). For other wells this is the first sulfide data to date (DMW-1, TMW-4, MW-7, MW-14, and MW-16). Concentrations ranged from 11 mg/L to non-detect.

In general, the reductive dechlorination indicator parameter data confirm that anoxic conditions favorable for biodegradation of CVOCs are being established within the plume area and dechlorination is occurring at the site (TMW-4, MW-8, MW-13, and MW-17). With sulfate concentrations continuing to decrease, the site may begin to exhibit lower redox values and proceed into fully anaerobic conditions. Sulfate is an electron acceptor, like TCE, therefore typically before further dechlorination can occur sulfate must be depleted. Further detections of cDCE and VC will likely occur as the groundwater contaminants degrade and the site naturally remediates.

4.0 Quality Assurance/Quality Control

Samples were delivered to Prism Laboratories under standard chain-of-custody documentation. Samples were received by the lab in good condition and met holding times and preservation requirements.

Field quality control checks during the sampling event consisted of the following:

- One laboratory-filled trip blank accompanied the sample cooler containing samples for VOC analysis. The trip blank was analyzed for VOCs by EPA Method 8260.

- A duplicate sample was taken

The trip blank was non-detect for VOCs. Refer to the laboratory analytical report in Appendix B for QA sample results.

5.0 Summary and Conclusions

Groundwater samples were collected from nine monitoring wells on October 23, 2014, as outlined in the approved RAP. The following provides a summary of the results of this sampling event:

- The generalized groundwater flow direction is northeasterly and is consistent with previously documented flow conditions.
- TCE remains above its 2L Standard in three monitoring wells including the source area and is degrading to cDCE, which is above the 2L Standard in the one source area monitoring well.
- CVOCs show overall downward trend, and TCE is degrading to cDCE in multiple wells.
- Conditions within the plume are anoxic and are expected to reduce as sulfate is depleted on site. Increased concentrations of cDCE may occur as the site continues to degrade.
- The CVOC plume is stable or shrinking as evidenced by the primary COC, TCE, being degraded by natural site conditions.
- No CVOCs were detected above 2L groundwater standards in downgradient boundary wells MW-16 and MW-17.

Based upon historic data and the data collected in October 2014, H&H recommends continuing the quarterly monitoring schedule as outlined in the RAP. The next sampling event will be in January 2015.

Tables

Table 1
Summary of Monitoring Well Construction
and Groundwater Elevation Data
Trion, Inc. Facility
Sanford, North Carolina
H&H Job No. JCI-001

Date				03/01/11		05/12/11		05/17/12		06/20/13		10/23/14	
Well ID	TOC Elevation (ft)	Total Depth (ft below TOC)	Screen Interval (ft bgs)	Depth to Water (ft below TOC)	Groundwater Elevation (ft)	Depth to Water (ft below TOC)	Groundwater Elevation (ft)	Depth to Water (ft below TOC)	Groundwater Elevation (ft)	Depth to Water (ft below TOC)	Groundwater Elevation (ft)	Depth to Water (ft below TOC)	Groundwater Elevation (ft)
TMW-1	283.63	64	49-64	8.98	274.65	9.32	274.31	8.12	275.51	8.20	275.43	8.38	275.25
TMW-2	274.34	23	8-23	6.89	267.45	7.78	266.56	7.92	266.42	6.00	268.34	NM	--
TMW-3	275.48	40	25-40	8.24	267.24	7.68	267.80	7.57	267.91	7.16	268.32	8.27	267.21
TMW-4	271.88	40	25-40	6.66	265.22	6.42	265.46	5.94	265.94	5.23	266.65	5.63	266.25
TMW-5	276.18	40	25-40	NM	NM	6.21	269.97	5.75	270.43	4.95	271.23	6.64	269.54
MW-6	272.07	25	15-25	7.16	264.91	8.67	263.40	6.44	265.63	6.34	265.73	6.18	265.89
MW-7[1]	271.55	60	55-60	6.88	264.67	5.46	266.09	5.32	266.23	4.87	266.68	5.57	265.98
MW-8	272.42	35	20-35	6.53	265.89	5.99	266.43	5.76	266.66	5.01	267.41	5.60	266.82
MW-9	280.09	40	25-40	13.76	266.33	13.75	266.34	13.44	266.65	12.71	267.38	NM	--
MW-10	273.96	29	14-29	9.56	264.40	9.51	264.45	9.04	264.92	8.45	265.51	8.25	265.71
MW-11	280.43	38	23-38	12.88	267.55	12.36	268.07	12.41	268.02	11.81	268.62	12.67	267.76
MW-12	280.45	50	35-50	13.31	267.14	12.67	267.78	12.56	267.89	12.23	268.22	13.03	267.42
MW-13	273.05	50	35-50	20.20	252.85	18.22	254.83	19.08	253.97	18.13	254.92	20.03	253.02
MW-14	271.44	55	40-55	11.99	259.45	5.78	265.66	5.78	265.66	5.53	265.91	9.46	261.98
MW-15	266.80	50	35-50	5.31	261.49	3.94	262.86	3.50	263.30	3.69	263.11	6.32	260.48
MW-16	266.39	50	35-50	NM	NM	NM	NM	8.77	257.62	7.89	258.50	11.23	255.16
MW-17	264.63	75	55-75	NM	NM	NM	NM	5.36	259.27	5.24	259.39	7.57	257.06
DMW-1[2]	273.35	100	80-100	NM	NM	NM	NM	21.12	252.23	21.25	252.10	24.38	248.97

Notes:
TOC = top of casing
bgs = below ground surface
NM = not measured
MW-7[1] - Type III monitoring well with outer casing set at 48 ft below TOC.
DMW-1[2] - Type III monitoring well with outer casing set at 75 ft below TOC.

Table 2
Summary of Groundwater Analytical Data (October 2014)
Trion, Inc. Facility
Sanford, North Carolina
H&H Job No. JCI-001

Well ID	Sample Date	VOCs (8260B)											
		Acetone	Chloroform	Chloromethane	Trichlorofluoromethane	1,2-Dichlorobenzene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	Toluene	1,2,4-Trichlorobenzene	Vinyl Chloride
Units		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Screening Criteria (1)		6,000	70	3	2,000	20	70	100	0.7	3	600	70	0.03
Screening Criteria (2)		20,000,000	35	220	160	2,300	NS	140	49	4.4	16,000	30	25
TMW-1	10/23/14	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
TMW-4	10/23/14	<5.0	<0.50	<0.50	<0.50	<0.50	62	3.7	<0.50	**12**	<0.50	<1.0	<0.50
MW-7	10/23/14	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
MW-8	10/23/14	<5.0	<0.50	<0.50	<0.50	<0.50	**130**	10	<0.50	**55**	<0.50	<1.0	<0.50
MW-13	10/23/14	<5.0	0.65	<0.50	<0.50	<0.50	47	1.8	<0.50	**25**	<0.50	<1.0	<0.50
MW-14	10/23/14	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
MW-16	10/23/14	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
MW-17	10/23/14	<5.0	<0.50	<0.50	<0.50	<0.50	5.8	<0.50	<0.50	2.4	<0.50	<1.0	<0.50
DMW-1	10/23/14	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50

Notes:
1) Analytical results compared to NC DENR 15A NCAC 2L Groundwater Standards, revised April 1, 2013
2) Analytical results compared to NC DENR Inactive Hazardous Sites Branch (IHSB) Industrial
Vapor Intrusion Preliminary Acceptable Groundwater Concentrations, revised July 2012
Only those compounds detected in at least one sample are shown above
Bold indicates an exceedance of the 2L Groundwater screening criteria referenced in note 1
Shaded indicates an exceedance of the IHSB screening criteria referenced in note 2
Method number follows parameter in parenthesis
VOCs= Volatile Organic Compound
NA = Not Analyzed, NS = Screening criteria not specified

Table 3
Summary of Historical Groundwater Analytical Data
Trion, Inc. Facility
Sanford, North Carolina
H&H Job No. JCI-001

Well ID	Sample Date	VOCs (8260B)											
		Acetone	Chloroform	Chloromethane	Trichlorofluoromethane	1,2-Dichlorobenzene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene (PCE)	Trichloroethene (TCE)	Toluene	1,2,4-Trichlorobenzene	Vinyl Chloride
Units		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Screening Criteria (1)		6,000	70	3	2,000	20	70	100	0.7	3	600	70	0.03
Screening Criteria (2)		20,000,000	35	220	160	2,300	NS	140	49	4.4	16,000	30	25
TMW-1	02/26/08	<25.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50
	09/10/09	<25.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50
	03/01/11	6.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
TMW-2	02/26/08	<25.0	<1.0	2.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50
	09/10/09	<25.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50
	03/02/11	13	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
TMW-3	02/26/08	<25.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50
	09/10/09	<25.0	<1.0	<1.0	0.86 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50
	03/01/11	<5.0	<0.50	<0.50	0.94	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
TMW-4	02/26/08	<25.0	<1.0	<1.0	<1.0	<1.0	30.2	2.0	<1.0	**9.5**	<1.0	<1.0	<0.50
	03/13/08	<25.0	<1.0	<1.0	<1.0	<1.0	35.6	2.9	<1.0	**10.9**	<1.0	<1.0	<0.50
	09/10/09	<25.0	<1.0	<1.0	<1.0	<1.0	48.0	3.2	<1.0	**13.3**	<1.0	<1.0	<0.50
	03/02/11	<5.0	<0.50	<0.50	<0.50	<0.50	49	3.6	<0.50	**10**	<0.50	<1.0	<0.50
TMW-5	02/26/08	<25.0	<1.0	<1.0	1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50
	09/10/09	<25.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50
	05/12/11[3]	<5.0	<0.50	<0.50	2.2	<0.50	<0.50	<0.50	0.57	<0.50	<0.50	<1.0	<0.50
MW-6	09/10/09	<25.0	<1.0	<1.0	<1.0	<1.0	0.27 J	<1.0	<1.0	2.9	<1.0	<1.0	<0.50
	03/02/11	16	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	<0.50	<1.0	<0.50
MW-7	04/23/08	2.9 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.69 J	<1.0	<1.0	<1.0	<0.50
	09/10/09	<25.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50
	03/02/11	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
MW-8	04/23/08	<25.0	<1.0	<1.0	<1.0	0.56 J	38.9	2.9	<1.0	**12.7**	<1.0	3.9	<0.50
	09/10/09	<25.0	0.14 J	<1.0	<1.0	<1.0	**113**	9.5	<1.0	**61.6**	<1.0	<1.0	<0.50
	03/01/11	<5.0	<0.50	<0.50	<0.50	<0.50	**160**	12	<0.50	**61**	<0.50	<1.0	<0.50
	06/20/13	<5.0	<0.50	<0.50	<0.50	<0.50	**160**	13	<0.50	**72**	<0.50	<1.0	<0.50
MW-9	05/01/08	<25.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50
	09/10/09	<25.0	<1.0	<1.0	<1.0	<1.0	0.30 J	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50
	03/02/11	15	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
MW-10	04/23/08	<25.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50
	09/10/09	<25.0	<1.0	<1.0	0.27 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50
	03/01/11	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
MW-11	05/01/08	<25.0	<1.0	<1.0	<1.0	<1.0	**137**	6.2	<1.0	2.3	<1.0	<1.0	<0.50
	09/10/09	<25.0	<1.0	<1.0	<1.0	<1.0	27.4	0.94 J	<1.0	1.8	<1.0	<1.0	<0.50
	03/01/11	<5.0	<0.50	<0.50	<0.50	<0.50	51	2.6	<0.50	1.8	<0.50	<1.0	<0.50
MW-12	05/01/08	<25.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50
	09/10/09	<25.0	<1.0	<1.0	0.22 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50
	03/01/11	7.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
MW-13	03/02/11	<5.0	<0.50	<0.50	<0.50	<0.50	37	1.8	<0.50	**30**	<0.50	<1.0	<0.50
	05/12/11[4]	<5.0	<0.50	<0.50	<0.50	<0.50	39	1.8	<0.50	**34**	<0.50	<1.0	<0.50
	06/20/13	<5.0	<0.50	<0.50	<0.50	<0.50	40	2.0	<0.50	**36**	<0.50	<1.0	<0.50
MW-14	03/02/11	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
	06/20/13	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
MW-15	03/02/11	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.66	<1.0	<0.50
MW-16	05/18/12	41.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
MW-17	05/18/12	<5.0	<0.50	<0.50	<0.50	<0.50	8.1	<0.50	<0.50	**4.9**	<0.50	<1.0	<0.50
	06/20/13	<5.0	<0.50	<0.50	<0.50	<0.50	5.3	<0.50	<0.50	2.7	<0.50	<1.0	<0.50
DMW-1	05/18/12	7.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50
	06/20/13	**6,500**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.0	<1.0	**0.70**
	08/02/13	**11,000**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	**0.52**
	08/22/13	1,900	<25	<12	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<25	<5.0	<5.0
	09/11/13	**7,780**	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	1.50	<1.00
	12/11/13	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.83	<0.50	<0.50	<0.50
	12/18/13[5]	<5.0	4.8	<0.50	<0.50	<0.50	0.65	<0.50	<0.50	1.8	<0.50	<0.50	<0.50

Notes:
1) Analytical results compared to NC DENR 15A NCAC 2L Groundwater Standards, revised April 1, 2013
2) Analytical results compared to NC DENR IHSB Industrial Vapor Intrusion Preliminary Acceptable Groundwater Concentrations, revised July 2012
3) Sample collected from TMW-5 on 5/12/11 due to well obstruction during 3/1/11 - 3/2/11 sampling event
4) Sample collected from MW-13 on 5/12/11 to confirm concentrations detected during 3/2/11 sampling event
5) Sample collected on 12/18/13 (DMW-1), trip blank contained 1.1 (µg/L) chloroform
Only those compounds detected in at least one sample are shown above
Bold indicates an exceedance of the 2L Groundwater screening criteria referenced in Note 1
Shaded indicates an exceedance of the IHSB screening criteria referenced in Note 2
Method number follows parameter in parenthesis
VOCs= Volatile Organic Compounds
NA = Not Analyzed, NS = Screening criteria not specified

Table 4
Summary of MNA Data
Trion, Inc. Facility
Sanford, North Carolina
H&H Job No. JCI-001

Well ID	Sample Date	MNA Parameters											
		Dissolved Oxygen (mg/L)	pH (standard units)	Conductivity (µs/cm^2)	ORP (mV)	Chloride (mg/L)	Ethane (µg/L)	Ethene (µg/L)	Methane (µg/L)	Nitrate as N (mg/L)	Sulfate (mg/L)	Ferrous Iron (mg/L)	Total Organic Carbon (mg/L)
TMW-1	10/23/14	0.46	7.47	427	-72.1	13	<0.087	0.760J	3.41	<0.10	11	0	3.1
DMW-1	10/23/14	6.19	8.47	250	130.0	3.6	<0.087	<0.071	<0.435	0.13	1.3	0	0.30U
TMW-4	10/23/14	0.51	7.28	402	-30.2	10	<0.087	<0.071	<0.435	0.13	<1.0	0	0.78J
MW-7	10/23/14	0.23	7.65	289	-58.9	5.0	<0.087	0.305J	<0.435	<0.10	<1.0	0.5	0.30U
MW-8	10/23/14	0.55	7.01	364	48.0	13	<0.087	<0.071	<0.435	0.22	1.0	0	0.30U
MW-13	10/23/14	3.55	8.04	210	-69.2	16	<0.087	<0.071	<0.435	0.47	7.1	0	1.1
MW-14	10/23/14	3.34	9.82	219	82.5	4.1	<0.087	0.677J	<0.435	0.27	5.1	0.2	2.8
MW-16	10/23/14	0.35	6.73	223	261.2	7.7	<0.087	<0.071	<0.435	0.13	<1.0	1.0	1.8
MW-17	10/23/14	1.89	5.83	195	96.0	9.7	<0.087	<0.071	<0.435	1.1	8.2	0	3.1

Notes:

1) DMW-1 purged and re-developed on 8/2/2013

2) Dissolved oxygen, pH, conductivity, and ORP stabilization parameters obtained from YSI 556.
Ferrous iron obtained from HACH field test kit.
Total Organic Carbon was analyzed by Standard Method 5310B; Methane, Ethane, Ethene by Method RSK-175; Chloride, Sulfate, and Nitrate as N by Method 9056A.

3) TMW-1 is upgradient of the plume and is shown for comparison to background levels.

NA = Not Analyzed, ND= Not Detected

MNA= Monitored Natural Attenuation

Table 5
Summary of Historical MNA Data
Trion, Inc. Facility
Sanford, North Carolina
H&H Job No. JCI-001

Well ID	Sample Date	MNA Parameters											
		Dissolved Oxygen (mg/L)	pH (standard units)	Conductivity (µs/cm^2)	ORP (mV)	Chloride (mg/L)	Ethane (µg/L)	Ethene (µg/L)	Methane (µg/L)	Nitrate as N (mg/L)	Sulfate (mg/L)	Ferrous Iron (mg/L)	Total Organic Carbon (mg/L)
TMW-1	6/20/2013	3.57	7.12	366	-3.1	13	<1.00	<1.00	<5.00	0.05	14	NA	4.2
DMW-1	5/18/2012	3.31	11.84	826	-96.1	NA	NA	NA	NA	NA	NA	NA	NA
	6/20/2013	6.13	11.11	452	-55.8	NA	NA	NA	NA	NA	NA	ND	NA
	8/2/2013	6.66	10.07	426	-91.2	NA	NA	NA	NA	NA	NA	NA	NA
	8/22/2013	4.22	10.80	397	-68.5	NA	NA	NA	NA	NA	NA	NA	NA
	9/11/2013	5.31	11.06	413	-3.5	NA	NA	NA	NA	NA	NA	NA	NA
TMW-4	3/2/2011	1.35	7.35	417	28.6	NA	NA	NA	NA	NA	NA	NA	NA
MW-7	3/2/2011	1.69	8.12	340	38.6	NA	NA	NA	NA	NA	NA	NA	NA
MW-8	3/1/2011	1.16	7.35	428	42.7	NA	NA	NA	NA	NA	NA	NA	NA
	6/20/2013	0.42	6.95	403	33.2	13	<1.00	<1.00	<5.00	0.26	2.2	0.25	1.1
MW-13	3/2/2011	4.60	7.31	434	48.1	NA	NA	NA	NA	NA	NA	NA	NA
	5/12/2011	2.18	6.27	454	142.5	NA	NA	NA	NA	NA	NA	NA	NA
	6/20/2013	2.60	8.48	323	15.2	15	<1.00	<1.00	<5.00	0.52	10	ND	1.0
MW-14	3/2/2011	5.21	8.14	351	45.1	NA	NA	NA	NA	NA	NA	NA	NA
	6/20/2013	1.09	9.06	236	15.2	NA	NA	NA	NA	NA	NA	ND	NA
MW-16	5/18/2012	1.31	7.61	301	6.4	NA	NA	NA	NA	NA	NA	NA	NA
MW-17	5/18/2012	1.48	6.93	395	37.5	NA	NA	NA	NA	NA	NA	NA	NA
	6/20/2013	3.67	6.27	195	153.7	8.8	<1.00	<1.00	<5.00	0.66	12	0.25	2.4

Notes:

1) DMW-1 purged and re-developed on 8/2/2013

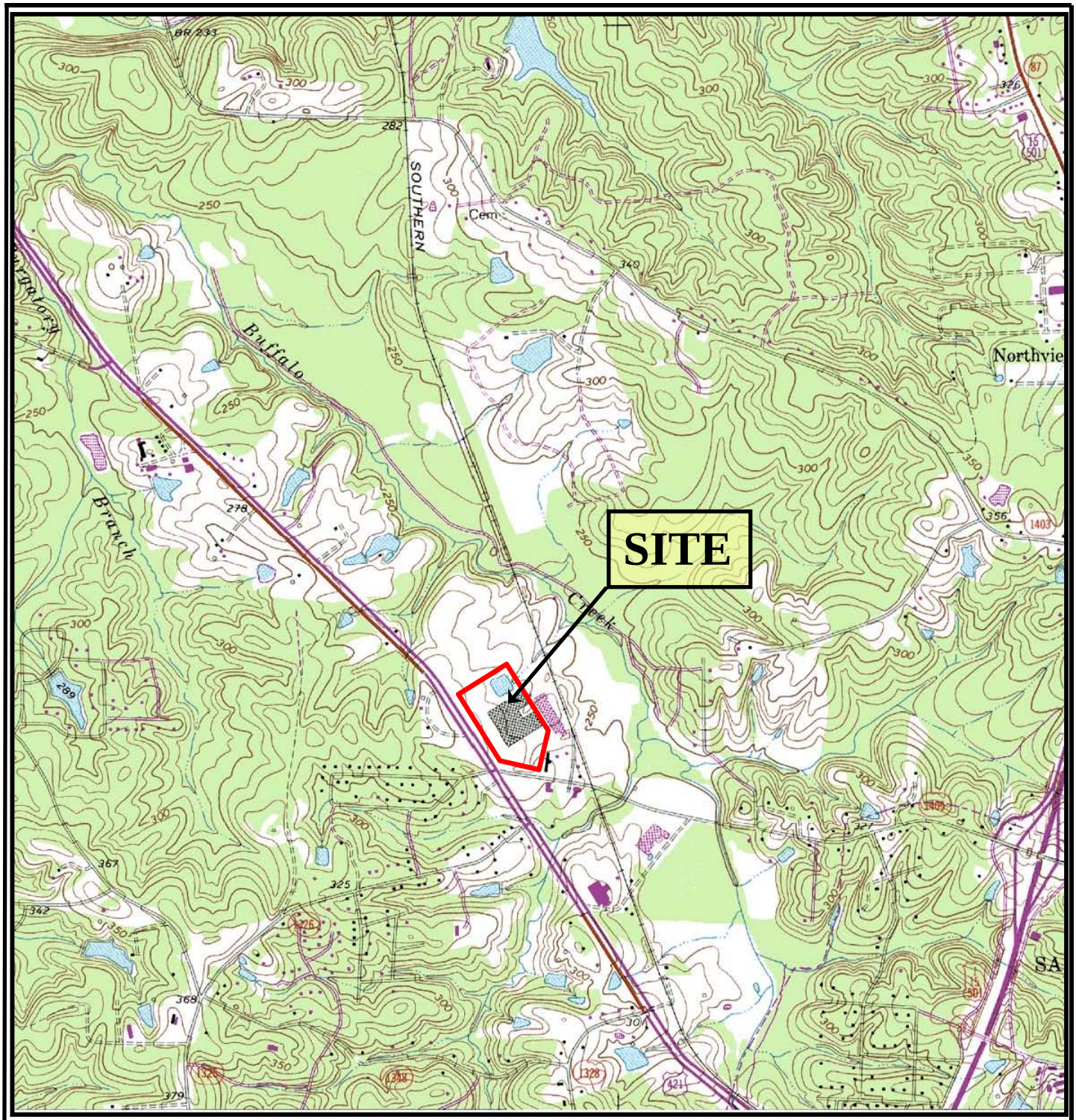
2) Dissolved oxygen, pH, conductivity, and ORP stabilization parameters obtained from YSI 556.
Ferrous iron obtained from HACH field test kit.
Total Organic Carbon was analyzed by Standard Method 5310B; Methane, Ethane, Ethene by Method RSK-175; Chloride, Sulfate, and Nitrate as N by Method 9056A.

3) TMW-1 is upgradient of the plume and is shown for comparison to background levels.

NA = Not Analyzed, ND= Not Detected

MNA= Monitored Natural Attenuation

Figures



N

0 2000 4000

APPOXIMATE SCALE IN FEET

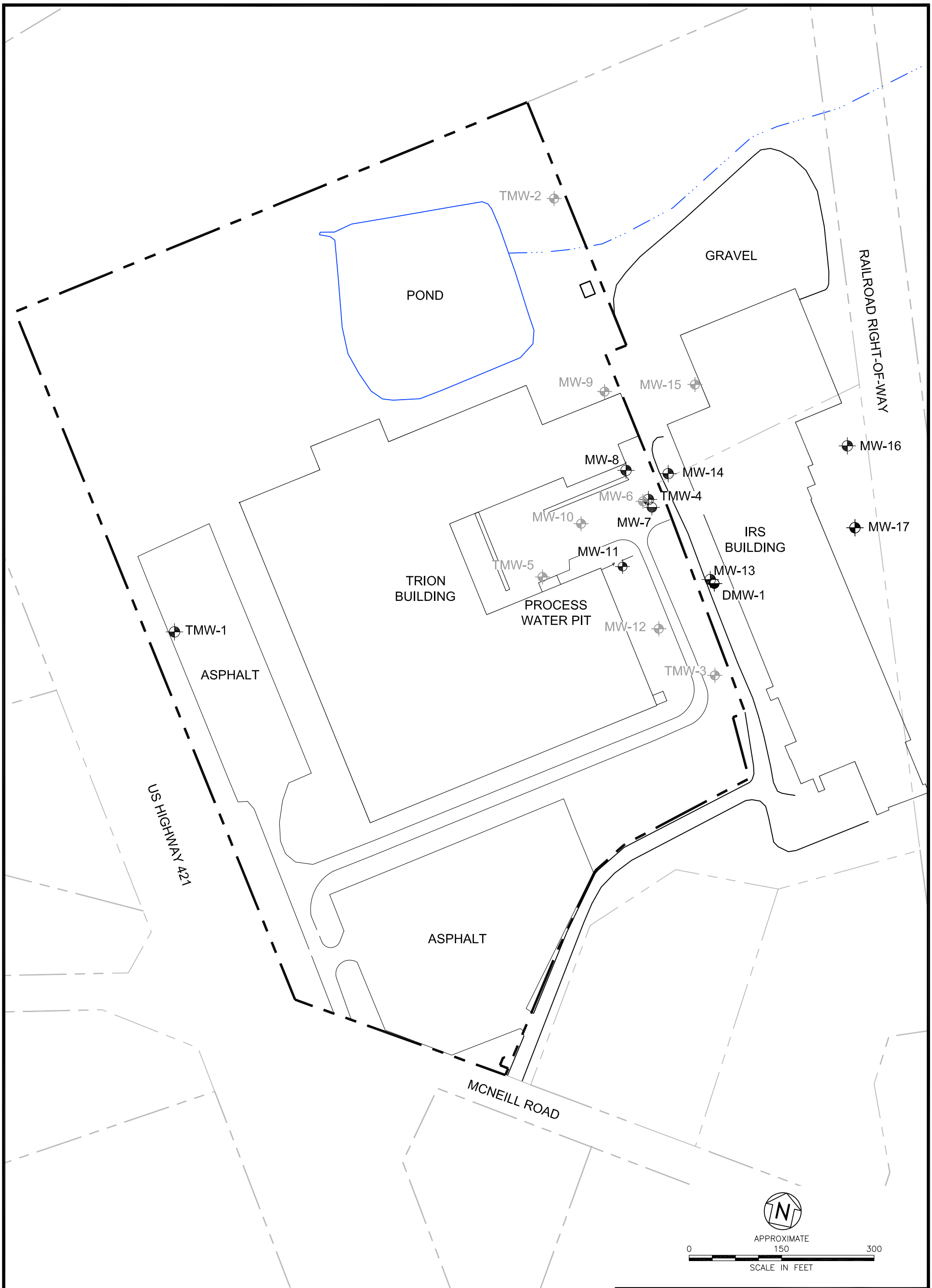
U.S.G.S. QUADRANGLE MAP

COLON, NC 1970, REVISED 1981

QUADRANGLE
7.5 MINUTE SERIES (TOPOGRAPHIC)

TITLE	**SITE LOCATION MAP**
PROJECT	**TRION, INC. FACILITY** 101 MCNEILL ROAD SANFORD, NORTH CAROLINA
hart hickman SMARTER ENVIRONMENTAL SOLUTIONS	3334 HILLSBOROUGHSTREET RALEIGH, NORTH CAROLINA (919) 847-4241

DATE:	11-19-14	REVISION NO:	0
JOB NO:	JCI-001	FIGURE NO:	1



LEGEND

- SITE PROPERTY
- PROPERTY PARCEL
- INTERMITTENT STREAM
- TYPE II MONITORING WELL
- TYPE III MONITORING WELL
- NOT IN MONITORING NETWORK

TITLE

SITE MAP

PROJECT

TRION, INC. FACILITY
101 MCNEILL ROAD
SANFORD, NORTH CAROLINA

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)
License # C-1269 / #C-245 Geology

DATE: 12–23–14	REVISION NO. 0
JOB NO. JCI–001	FIGURE NO. 2

S:\AAA-Master Projects\Johnson Controls Inc - JCI\Report\Figures\Figures 2-5.dwg, FIG 2, 12/29/2014 11:33:31 AM,
nfoster

LEGEND

- TYPE II MONITORING WELL
- TYPE III MONITORING WELL
- WATER SUPPLY WELL
- 269.54 GROUNDWATER ELEVATION
- GENERALIZED GROUNDWATER FLOW DIRECTION
- 272 GROUNDWATER ELEVATION CONTOUR
- SITE PROPERTY
- PROPERTY PARCEL
- INTERMITTENT STREAM

N

APPROXIMATE
0 150 300
SCALE IN FEET

NOTE:

MONITORING WELLS GAUGED ON 10/23/2014.

TITLE
GROUNDWATER TABLE ELEVATION CONTOUR MAP

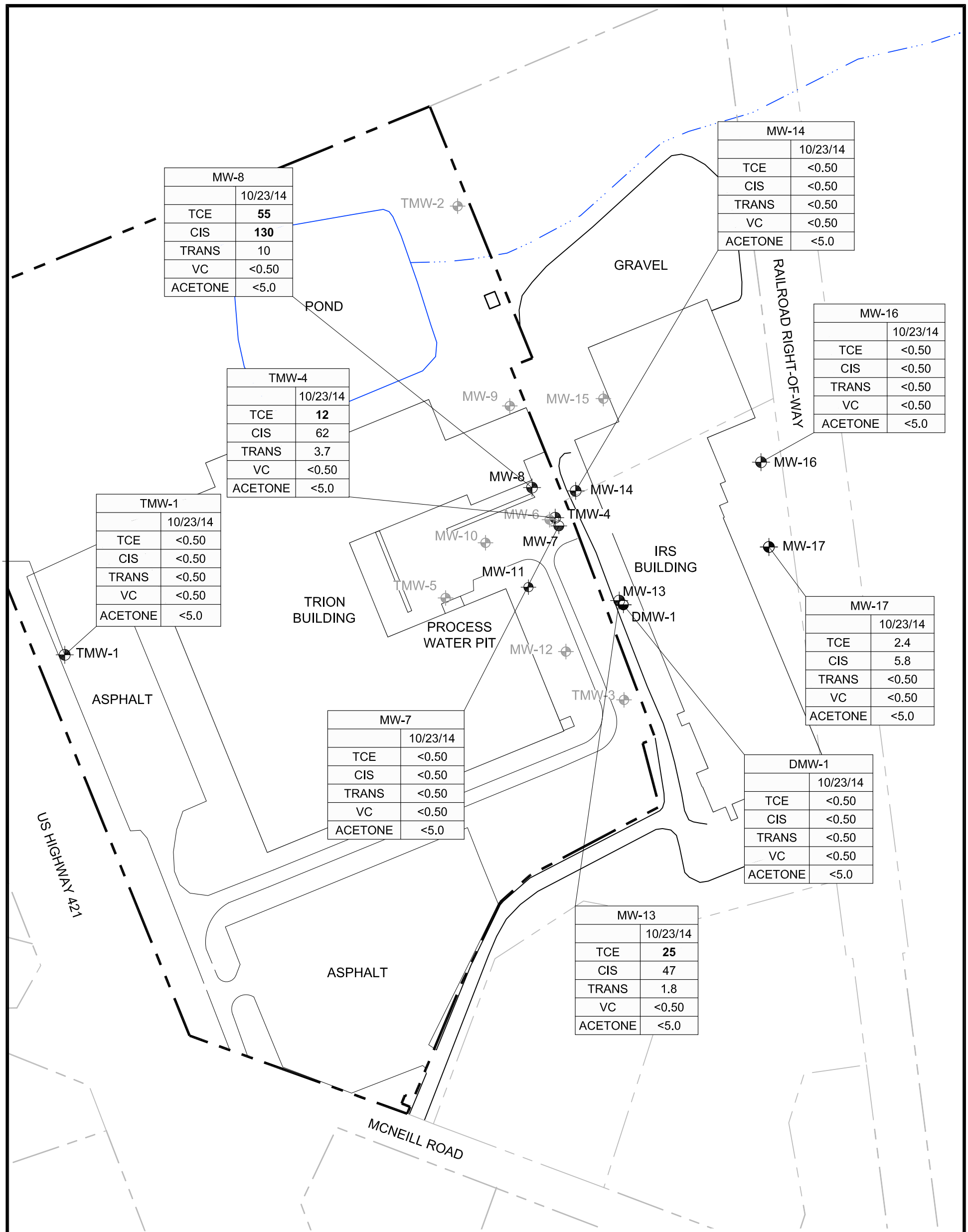
PROJECT
TRION, INC. FACILITY
101 MCNEILL ROAD
SANFORD, NORTH CAROLINA

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)
License # C-1269 / #C-245 Geology

DATE: 12–16–14	REVISION NO. 0
JOB NO. JCI–001	FIGURE NO. 3

S:\AAA-Master Projects\Johnson Controls Inc - JCI\Report\Figures\Figures 2-5.dwg, FIG 3, 12/29/2014 11:33:49 AM, nfoster



LEGEND

- TYPE II MONITORING WELL
- TYPE III MONITORING WELL
- NOT INCLUDED IN MONITORING NETWORKING.
- SITE PROPERTY
- PROPERTY PARCEL
- INTERMITTENT STREAM

TMW-4	
	10/23/14
TCE	12
CIS	62
TRANS	3.7
VC	<0.50
ACETONE	<5.0

SAMPLE IDENTIFICATION
SAMPLE DATE
ANALYTICAL RESULT (µg/L)
CONSTITUENT

APPROXIMATE
0 150 300
SCALE IN FEET

NOTES:

1. GROUNDWATER SAMPLES COLLECTED ON 10-23-14.
2. TCE = TRICHLOROETHENE
3. CIS = CIS-1,2-DICHLOROETHENE
4. TRANS = TRANS-1,2-DICHLOROETHENE
5. VC = VINYL CHLORIDE
6. **BOLD** VALUES EXCEED REGULATORY STANDARDS

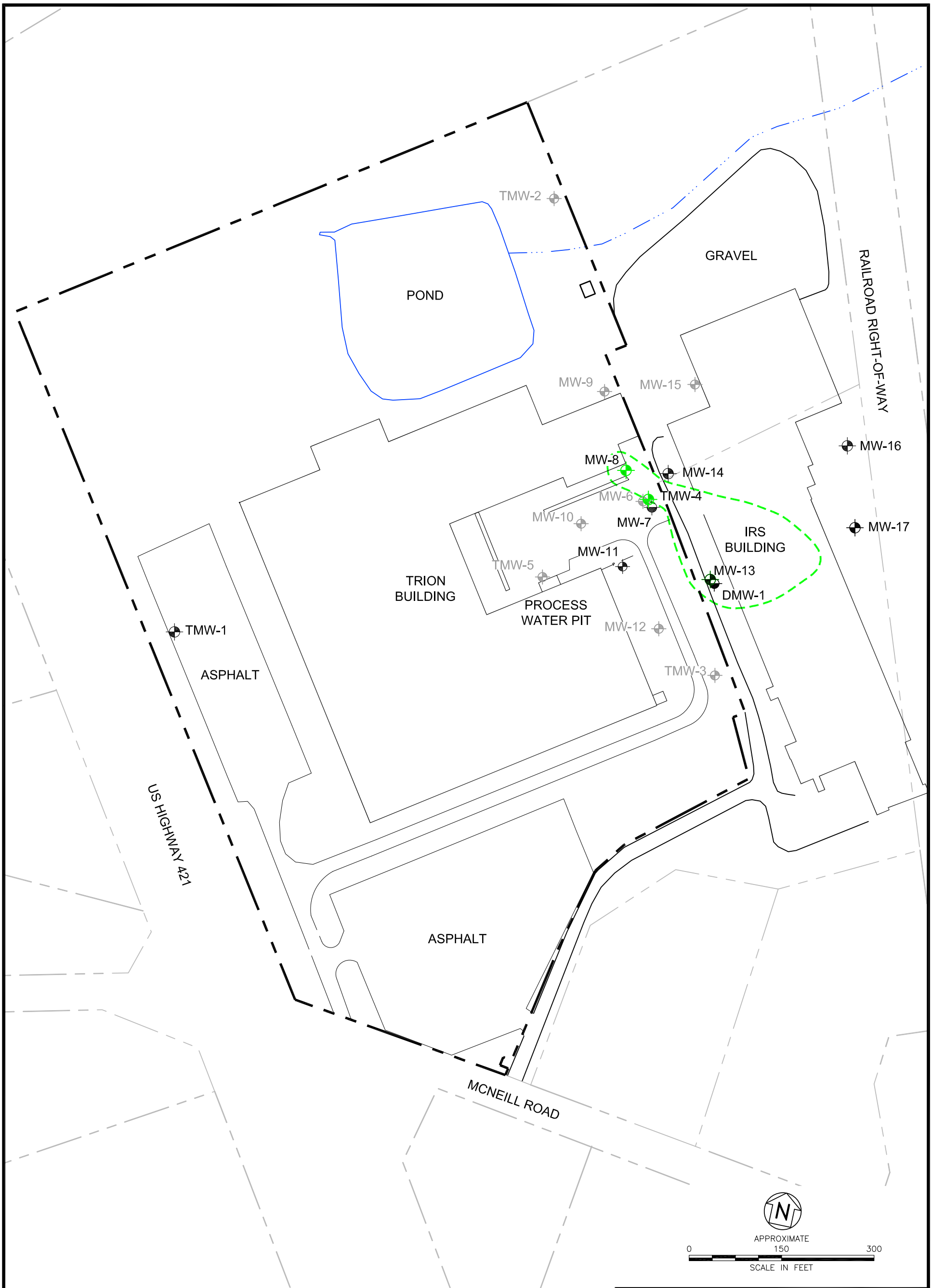
TITLE
GROUNDWATER CONTAMINANT CONCENTRATION MAP OCTOBER 2014

PROJECT
TRION, INC. FACILITY
101 MCNEILL ROAD
SANFORD, NORTH CAROLINA

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS
3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)
License # C-1269 / #C-245 Geology

DATE: 11–19–14	REVISION NO. 0
JOB NO. JCI–001	FIGURE NO. 4

S:\AAA-Master Projects\Johnson Controls Inc - JCI\Report\Figures\Figures 2-5.dwg, FIG 4, 12/29/2014 11:34:00 AM, nfoster



LEGEND

- SITE PROPERTY
- PROPERTY PARCEL
- INTERMITTENT STREAM
- TYPE II MONITORING WELL
- TYPE III MONITORING WELL
- CVOC PLUME ABOVE 2L STANDARDS
- WELL IMPACTED BY CVOCs ABOVE 2L STANDARDS

NOTES:

1. GROUNDWATER SAMPLES WERE COLLECTED OCTOBER 23, 2014.
2. CVOC - CHLORINATED VOLATILE ORGANIC COMPOUNDS

TITLE
OBSERVED EXTENT OF CVOC PLUME >2L STANDARDS OCTOBER 2014

PROJECT
TRION, INC. FACILITY
101 MCNEILL ROAD
SANFORD, NORTH CAROLINA

hart hickman
SMARTER ENVIRONMENTAL SOLUTIONS

3334 Hillsborough Street
Raleigh, North Carolina 27607
919-847-4241(p) 919-847-4261(f)
License # C-1269 / #C-245 Geology

DATE: 12–18–14	REVISION NO. 0
JOB NO. JCI–001	FIGURE NO. 5

S:\AAA-Master Projects\Johnson Controls Inc - JCI\Report\Figures\Figures 2-5.dwg, FIG 5, 12/29/2014 11:34:15 AM, nfoster

Appendix A

Certification Forms

REC PROGRAM DOCUMENT CERTIFICATION FORM - PAGE 1 OF 2
IHSB SITE NAME Trion, Inc. Site NONCD 0002843
DATE & NAME OF DOCUMENT December 29, 2014, Groundwater Monitoring Report
TYPE OF SUBMITTAL (circle all that apply): Report, Work plan, Work Phase Comp. Statement, Schedule Change

REMEDIATING PARTY DOCUMENT CERTIFICATION STATEMENT (.0306(B)(2))

"I certify under penalty of law that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this certification, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material and information contained herein is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for willfully submitting false, inaccurate or incomplete information."

Jeff Werwie, P.E. CHMM
Name of Remediating Party

Signature of Remediating Party

1/5/2015
Date

NOTARIZATION

Wisconsin (Enter State)

Milwaukee **COUNTY**

I, Karen M. Barkas, a Notary Public of said County and State, do hereby certify that Jeff Werwie did personally appear and sign before me this day, produced proper identification in the form of driver's license and personally known, was duly sworn or affirmed, and declared that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certification is true and accurate, and he or she then signed this Certification in my presence.

WITNESS my hand and official seal this 5th day of January, 2015.

Karen M Barkas
Notary Public (signature)

(OFFICIAL SEAL)

My commission expires: 4/21/18.

Karen M. Barkas
Notary Public
State of Wisconsin

REC PROGRAM DOCUMENT CERTIFICATION FORM - PAGE 2 OF 2
IHSB SITE NAME Trion, Inc. NONCD 0002843
DATE & NAME OF DOCUMENT December 29, 2014 Groundwater Monitoring Report
TYPE OF SUBMITTAL (circle all that apply): Report, Work plan, Work Phase Comp. Statement, Schedule Change

REGISTERED SITE MANAGER CERTIFICATION OF SIGNATURES

As the Registered Environmental Consultant for the Site for which this filing is made, I certify that the signatures included herewith are genuine and authentic original handwritten signatures and/or true, accurate, and complete copies of the genuine and authentic original handwritten signatures of the persons who purport to sign for this filing. I further certify that I have collected through reliable means the originals and/or copies of said signatures from the persons authorized to sign for this filing who, in fact, signed the originals thereof. Those persons and I understand and agree that any copies of signatures have the same legally binding effect as original handwritten signatures, and I certify that any person for whom I am submitting a copy of their signature has provided me with their express consent to submit said copy. Additionally, I certify that I am authorized to attest to the genuineness and authenticity of the signatures, both originals and any copies, being submitted herewith and that by signing below, I do in fact attest to the genuineness and authenticity of all the signatures, both originals and copies, being submitted for this filing.

Leonard Moretz
Name of Registered Site Manager

Leonard Moretz
Signature of Registered Site Manager

January 7, 2015
Date

REGISTERED SITE MANAGER DOCUMENT CERTIFICATION STATEMENT (.0306(b)(1))

"I certify under penalty of law that I am personally familiar with the information contained in this submittal, including any and all supporting documents accompanying this certification, and that the material and information contained herein is, to the best of my knowledge and belief, true, accurate and complete and complies with the Inactive Hazardous Sites Response Act G.S. 130A-310, et seq, and the remedial action program Rules 15A NCAC 13C .0300. I am aware that there are significant penalties for willfully submitting false, inaccurate or incomplete information."

Leonard Moretz
Name of Registered Site Manager

Leonard Moretz
Signature of Registered Site Manager

January 7, 2015
Date

NOTARIZATION

NorthCarolina (Enter State)

Wake **COUNTY**

I, Ashley Drager, a Notary Public of said County and State, do hereby certify that Leonard Moretz did personally appear and sign before me this day, produced proper identification in the form of Driver License, was duly sworn or affirmed, and declared that, he or she is the duly authorized environmental consultant of the remediating party of the property referenced above and that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certifications is true and accurate, and he or she then signed these Certifications in my presence.

WITNESS my hand and official seal this 7 day of January, 2015

Ashley Drager
Notary Public (signature)

(OFFICIAL SEAL)

WAKE COUNTY PUBLIC NOTARY ASHLEY DRAGER

My commission expires: 10/30/2017

Document Certification Form No. DC - II
(Revised 8/11)

Appendix B

Groundwater Sampling Forms

hart hickman

SMARTER ENVIRONMENTAL SOLUTIONS

LOW-FLOW GROUND WATER SAMPLING RECORD

Stabilization Criteria

DO +/- 0.3 mg/l — Turb. +/- 10% (<10 NTUs)
Cond. +/- 3% — S. ORP +/- 10 mV
pH +/- 0.1 unit

Job No: JC1-001
Well ID: TMW-1
Well Location:
Date: 10/23/14

Facility Name: Trion, Inc.
Top of Casing Elevation (ft msl):
Casing Material: PVC
Volume of Water Per Well Volume:
Total Well Depth (feet): 64
Screen Interval (feet): 49-64
Depth to Water (feet):
Well Diameter: 2in
Sampling Personnel: Patrick Stevens
Type of Pump: Peristaltic
Tubing Material: Poly
Pump/Tubing set at: 60" ft.
Weather Conditions: Sunny 60's
Notes:

GROUND WATER SAMPLING PARAMETERS

Time	Water Level	Volume Pumped	Pumping Rate	DO (mg/l)	Temp. (°C)	S. Cond. (µS/cm)	pH (SU)	ORP (mV)	Turbidity (NTU)
1550	8.22			6.37	21.83	407	7.55	78.5	13.3
1555	10.01			1.64	21.85	422	7.45	-37.7	8.39
1600	10.65			1.00	21.84	425	7.44	-58.7	11.30
1605	11.27			0.67	21.84	427	7.45	-66.5	pH ~~11.47~~ 11.4 11.4
1610	11.72			0.52	21.78	426	7.45	-68.2	12.0
1615	12.20			0.46	21.91	427	7.47	-72.1	11.7

Other Sample Parameters: Ferrous Iron: 0.0 mg/L
Sampled at: 1615
Parameters taken with:
Sample Delivered to: by: at:
Field Filtration: ( ) Yes (X) No
If yes, which sample parameters were field filtered:
Sample Parameter Containers (Types, Number of Containers, Preservatives):

hart hickman

SMARTER ENVIRONMENTAL SOLUTIONS

LOW-FLOW GROUND WATER SAMPLING RECORD

Stabilization Criteria

DO +/- 0.3 mg/l
Turb. +/- 10% (<10 NTUs)
S. Cond. +/- 3%
ORP +/- 10 mV
pH +/- 0.1 unit

Job No: JC1-001

Well ID: TMW-4

Well Location:

Date: 10/23/14

Facility Name: Trion, Inc.

Top of Casing Elevation (ft msl):

Casing Material: PVC

Volume of Water Per Well Volume:

Total Well Depth (feet): 40

Screen Interval (feet): 25-40

Depth to Water (feet):

Well Diameter: 2in

Sampling Personnel: Patrick Stevens

Type of Pump: Peristaltic

Tubing Material: Poly

Pump/Tubing set at: 38' ft.

Weather Conditions: Sunny, 60's

Notes:

GROUND WATER SAMPLING PARAMETERS

Time	Water Level	Volume Pumped	Pumping Rate	DO (mg/l)	Temp. (°C)	S. Cond. (µS/cm)	pH (SU)	ORP (mV)	Turbidity (NTU)
1430	6.40			2.38	23.21	406	8.02	80.3	41.1
1435	6.63			1.18	23.04	407	7.80	-17.2	22.5
1440	6.98			1.00	23.11	409	7.56	-43.7	6.87
1445	7.37			0.77	23.10	408	7.41	-43.4	5.47
1450	7.67			0.63	23.11	402	7.30	-38.2	7.20
1455	7.90			0.60	22.88	402	7.29	-35.1	1.52
1500	7.77			0.51	22.84	402	7.28	-30.2	2.07

Other Sample Parameters: Ferrous Iron = 0.0

Sampled at: 1500

Parameters taken with:

Sample Delivered to: Prism Labs

by:

at:

Field Filtration: ( ) Yes (X) No

If yes, which sample parameters were field filtered:

Sample Parameter Containers (Types, Number of Containers, Preservatives):

hart hickman

SMARTER ENVIRONMENTAL SOLUTIONS

LOW-FLOW GROUND WATER SAMPLING RECORD

Stabilization Criteria

DO +/- 0.3 mg/l — Turb. +/- 10% (<10 NTUs) — S. Cond. +/- 3% — ORP +/- 10 mV — pH +/- 0.1 unit

Job No: JCI-001

Well ID: DMW-1

Well Location:

Date: 10-23-14

Facility Name: Trion, Inc.

Top of Casing Elevation (ft msl):

Casing Material: PVC

Volume of Water Per Well Volume:

Total Well Depth (feet): 100

Screen Interval (feet): 80-100

Depth to Water (feet): 24.38

Well Diameter: 2"

Sampling Personnel: LRR

Type of Pump: Peristaltic

Tubing Material: Poly

Pump/Tubing set at: 90 ft.

Weather Conditions: 60's, Sunny

Notes:

GROUND WATER SAMPLING PARAMETERS

Time	Water Level	Volume Pumped	Pumping Rate	DO (mg/l)	Temp. (°C)	S. Cond. (µS/cm)	pH (SU)	ORP (mV)	Turbidity (NTU)
13:10	24.52	—	<250	5.30	21.01	242	8.35	155.4	4.08
13:15	25.25	—	<250	5.78	21.60	245	8.42	146.3	2.26
13:20	25.23	—	<250	6.02	22.08	247	8.45	139.5	1.89
13:25	25.24	—	<250	6.19	22.49	249	8.46	133.5	1.91
13:30	25.25	—	<250	6.19	22.75	250	8.47	130.0	1.22

Other Sample Parameters: Ferrous Iron: 0 mg/L

Sampled at: 13:40

Parameters taken with: YSI-556 + MicroTPI

Sample Delivered to: by: at:

Field Filtration: ( ) Yes (X) No

If yes, which sample parameters were field filtered:

Sample Parameter Containers (Types, Number of Containers, Preservatives):

hart hickman

SMARTER ENVIRONMENTAL SOLUTIONS

LOW-FLOW GROUND WATER SAMPLING RECORD

Stabilization Criteria

DO +/- 0.3 mg/l
+/- 10% (<10 NTUs) Turb.
Cond. +/- 3% S.
10 mV ORP +/-
unit pH +/- 0.1

Job No: JCI-001

Well ID: MW-7

Well Location:

Date: 10-23-14

Facility Name: Trion, Inc.

Top of Casing Elevation (ft msl): Casing Material: PVC

Volume of Water Per Well Volume:

Total Well Depth (feet): 60 Screen Interval (feet): 55-60 Depth to Water (feet): 5.57 Well Diameter: 2"

Sampling Personnel: MRR

Type of Pump: Peristaltic Tubing Material: Poly Pump/Tubing set at: 55 ft.

Weather Conditions: 70's °F, Sunny Notes:

GROUND WATER SAMPLING PARAMETERS

Time	Water Level	Volume Pumped	Pumping Rate	DO (mg/l)	Temp. (°C)	S. Cond. (µS/cm)	pH (SU)	ORP (mV)	Turbidity (NTU)
1430	6.21	—	<250	3.01	23.03	294	8.03	47.6	1.53
1435	6.48	—	<250	0.46	23.15	296	7.77	9.0	2.19
1440	6.83	—	<250	0.43	23.18	297	7.71	-10.0	1.91
1445	7.11	—	<250	0.32	22.95	296	7.67	-46.4	1.60
1450	7.46	—	<250	0.27	22.99	295	7.67	-66.0	9.46
1455	7.62	—	<250	0.25	22.75	292	7.65	-64.7	2.04
1500	7.80	—	<250	0.25	22.80	291	7.64	-73.0	1.41
1505	7.92	—	<250	0.23	22.74	289	7.65	-58.9	3.99

Other Sample Parameters: Ferrous Fe: 0.5 mg/L

Sampled at: 1510 Parameters taken with: YSI-556 + Micro TPI

Sample Delivered to: by: at:

Field Filtration: ( ) Yes (X) No If yes, which sample parameters were field filtered:

Sample Parameter Containers (Types, Number of Containers, Preservatives):

File:Low Flow Template, DMW-1

hart hickman

SMARTER ENVIRONMENTAL SOLUTIONS

LOW-FLOW GROUND WATER SAMPLING RECORD

Stabilization Criteria
DO +/- 0.3 mg/l
Turb. +/- 10% (<10 NTUs)
S. Cond. +/- 3%
ORP +/- 10 mV
pH +/- 0.1 unit

Job No: JC1-001
Well ID: MW-8
Well Location:
Date: 10-23-14

Facility Name: Trion, Inc.
Top of Casing Elevation (ft msl):
Casing Material:
Volume of Water Per Well Volume:
Total Well Depth (feet): 35
Screen Interval (feet): 20-35
Depth to Water (feet):
Well Diameter: 2"
Sampling Personnel: LRR
Type of Pump: Peristaltic
Tubing Material: Poly
Pump/Tubing set at: 30 ft.
Weather Conditions:
Notes:

GROUND WATER SAMPLING PARAMETERS

Time	Water Level	Volume Pumped	Pumping Rate	DO (mg/l)	Temp. (°C)	S. Cond. (µS/cm)	pH (SU)	ORP (mV)	Turbidity (NTU)
1545	6.68	—	<250	4.04	23.66	372	7.29	-28.8	1.97
1550	7.13	—	<250	1.15	23.35	372	7.10	30.1	1.58
1555	7.46	—	<250	0.74	23.24	370	7.02	36.5	0.96
1600	7.92	—	<200	0.58	23.22	365	7.01	47.0	0.68
1605	8.12	—	<200	0.55	23.19	365	7.02	49.5	0.88
1610	8.19	—	<200	0.55	23.18	364	7.01	48.0	1.44

Other Sample Parameters: Ferrous Iron: 0mg/L
Sampled at: 1615
Parameters taken with: 491-556 + Micro TP1
Sample Delivered to: by: at:
Field Filtration: ( ) Yes (X) No
If yes, which sample parameters were field filtered:
Sample Parameter Containers (Types, Number of Containers, Preservatives):

File:Low Flow Template, DMW-1

hart hickman

SMARTER ENVIRONMENTAL SOLUTIONS

LOW-FLOW GROUND WATER SAMPLING RECORD

Stabilization Criteria

DO +/- 0.3 mg/l
+/- 10% (<10 NTUs) Turb.
Cond. +/- 3% S.
10 mV ORP +/-
unit pH +/- 0.1

Job No: JC1-001

Well ID: MW-13

Well Location:

Date: 10-23-14

Facility Name: Trim, Inc.

Top of Casing Elevation (ft msl): Casing Material: Volume of Water Per Well Volume:

Total Well Depth (feet): 50 Screen Interval (feet): 35-50 Depth to Water (feet): 20.03 Well Diameter: 2"

Sampling Personnel:

Type of Pump: Peristaltic Tubing Material: Poly Pump/Tubing set at: 45 ft.

Weather Conditions: 50's, Sunny Notes: DUP-1 at 12:25

GROUND WATER SAMPLING PARAMETERS

Time	Water Level	Volume Pumped	Pumping Rate	DO (mg/l)	Temp. (°C)	S. Cond. (µS/cm)	pH (SU)	ORP (mV)	Turbidity (NTU)
11:45	20.98	—	<250	6.04	19.04	209	7.86	-59.8	2.72
11:50	21.24	—	<250	3.91	19.12	210	7.94	-64.2	1.84
11:55	21.51	—	<250	3.71	19.16	210	8.00	-67.0	1.82
12:00	21.87	—	<250	3.69	19.10	209	8.03	-68.4	3.43
12:05	22.13	—	<250	3.57	19.14	210	8.05	-69.5	3.23
12:10	22.30	—	<250	3.55	19.17	210	8.04	-69.2	5.14

Other Sample Parameters: Ferrous Iron: 0 mg/L

Sampled at: 12:15 Parameters taken with: YSI-556 + MicroTPI

Sample Delivered to: by: at:

Field Filtration: ( ) Yes (X) No If yes, which sample parameters were field filtered:

Sample Parameter Containers (Types, Number of Containers, Preservatives):

File:Low Flow Template, DMW-1

hart hickman

SMARTER ENVIRONMENTAL SOLUTIONS

LOW-FLOW GROUND WATER SAMPLING RECORD

Stabilization Criteria

DO +/- 0.3 mg/l
+/- 10% (<10 NTUs) Turb.
Cond. +/- 3% S.
10 mV ORP +/-
unit pH +/- 0.1

Job No: JC1-001

Well ID: MW-14

Well Location:

Date: 10/23/14

Facility Name: Trim Inc.

Top of Casing Elevation (ft msl): Casing Material: PVC Volume of Water Per Well Volume:

Total Well Depth (feet): 55 Screen Interval (feet): 40-55 Depth to Water (feet): Well Diameter: 2"

Sampling Personnel: Patrick Stavens

Type of Pump: Tubing Material: Poly Pump/Tubing set at: 53' ft.

Weather Conditions: Sunny, 60's Notes: Pump set to lowest setting due to draw down

GROUND WATER SAMPLING PARAMETERS

Time	Water Level	Volume Pumped	Pumping Rate	DO (mg/l)	Temp. (°C)	S. Cond. (µS/cm)	pH (SU)	ORP (mV)	Turbidity (NTU)
1310	9.63		150ml/min	3.97	21.79	258	7.91	109.8	6.66
1315	10.98			1.46	22.16	276	7.91	98.8	1.11
1320	11.58			1.04	22.72	275	7.92	95.8	1.00
1325	12.22			1.16	22.79	252	8.06	93.1	0.95
1330	12.88			2.12	22.75	226	8.88	82.7	0.70
1335	13.56			2.93	22.53	219	9.56	77.2	0.53
1340	14.17			3.46	22.27	219	9.79	86.1	0.39
1345	14.88			3.43	22.19	219	9.81	82.7	0.60
1350	15.55			3.34	22.19	219	9.82	82.5	0.43

Other Sample Parameters: Ferrous Iron = 0.2 mg/L

Sampled at: 1350 Parameters taken with:

Sample Delivered to: by: at:

Field Filtration: ( ) Yes (X) No If yes, which sample parameters were field filtered:

Sample Parameter Containers (Types, Number of Containers, Preservatives):

File:Low Flow Template, DMW-1

hart hickman

SMARTER ENVIRONMENTAL SOLUTIONS

LOW-FLOW GROUND WATER SAMPLING RECORD

Stabilization Criteria

DO +/- 0.3 mg/l
+/- 10% (<10 NTUs) Turb.
Cond. +/- 3% S.
10 mV ORP +/-
unit pH +/- 0.1

Job No: JC1-001

Well ID: MW-1U

Well Location:

Date: 10/23/14

Facility Name: Trian, Inc.

Top of Casing Elevation (ft msl): Casing Material: Volume of Water Per Well Volume:

Total Well Depth (feet): 50 Screen Interval (feet): 35-50 Depth to Water (feet): 11.23 Well Diameter: 2in

Sampling Personnel:

Type of Pump: Tubing Material: Poly Pump/Tubing set at: 48' ft.

Weather Conditions: Sunny, 60's Notes: Pulled tubing up approx. 3' to adjust for turbidity

GROUND WATER SAMPLING PARAMETERS

Time	Water Level	Volume Pumped	Pumping Rate	DO (mg/l)	Temp. (°C)	S. Cond. (µS/cm)	pH (SU)	ORP (mV)	Turbidity (NTU)
940	11.60		150 mL/min	2.02	16.94	249	6.45	278.4	51.67
945	11.88			0.91	16.90	238	6.57	323.1	24.66
950	11.97			0.67	16.82	236	6.61	332.3	18.85
955	12.07			0.56	16.74	233	6.65	333.3	15.02
1000	12.10			0.53	16.64	227	6.63	326.8	24.20
1005	12.18			0.49	16.70	225	6.65	307.8	39.68
1010	12.23			0.53	16.58	224	6.66	288.5	44.51
1015	12.29			0.46	16.51	223	6.66	275.6	57.23
1020	12.32			0.42	16.49	223	6.67	272.1	51.66
1025	12.39			0.39	16.55	223	6.69	268.2	50.26
1030	12.45			0.36	16.60	223	6.72	262.3	55.24
1035	12.50			0.35	16.61	223	6.73	261.2	51.45

Other Sample Parameters: Ferrous Iron = 1.0 mg/L

Sampled at: 1035 Parameters taken with:

Sample Delivered to: Prism Labs by: at:

Field Filtration: ( ) Yes (X) No If yes, which sample parameters were field filtered:

Sample Parameter Containers (Types, Number of Containers, Preservatives): VOC's (2x40mL, unpreserved, 2x40mL HCl)
Methane, Ethane, Ethene (3x40mL HCl), TOC (3x40mL Amber HCl),

File:Low Flow Template, DMW-1

hart hickman

SMARTER ENVIRONMENTAL SOLUTIONS

LOW-FLOW GROUND WATER SAMPLING RECORD

Stabilization Criteria
DO +/- 0.3 mg/l
+/- 10% (<10 NTUs) Turb.
Cond. +/- 3% S.
10 mV ORP +/-
unit pH +/- 0.1

Job No: JCI-001
Well ID: MW-17
Well Location:
Date: 10-23-14

Facility Name: Trian, Inc.
Top of Casing Elevation (ft msl): Casing Material: PVC
Volume of Water Per Well Volume:
Total Well Depth (feet): 75 Screen Interval (feet): 55-75 Depth to Water (feet): 7.57 Well Diameter: 2"
Sampling Personnel: LRR
Type of Pump: Peri Tubing Material: Poly Pump/Tubing set at: 65 ft.
Weather Conditions: 40's °F, Clear Notes:

GROUND WATER SAMPLING PARAMETERS

Time	Water Level	Volume Pumped	Pumping Rate	DO (mg/l)	Temp. (°C)	S. Cond. (µS/cm)	pH (SU)	ORP (mV)	Turbidity (NTU)
9:38	8.36	—	<200	3.22	16.49	207	6.57	73.7	2.15
9:48		—	<200	2.70	16.56	204	6.11	79.5	11.05
9:53	8.161	—	<200	2.24	16.72	198	5.94	87.1	0.91
9:58	8.168	—	<200	1.99	16.76	196	5.87	92.2	0.74
10:03	8.169	—	<200	1.93	16.74	195	5.85	94.6	0.73
10:08	8.70	—	<200	1.89	16.73	195	5.83	96.0	0.65

Other Sample Parameters: Ferrous Iron: 0 mg/L
Sampled at: 10:10 Parameters taken with: YSI-556 + Micro TPI
Sample Delivered to: by: at:
Field Filtration: ( ) Yes (X) No If yes, which sample parameters were field filtered:
Sample Parameter Containers (Types, Number of Containers, Preservatives): 8260 (2 pres HCl, 2 unpres VOAs), 9056A unpres plastic, RSK-175 (3 HCl VOAs), TOC (3 HCl Amber VOAs)

File:Low Flow Template, DMW-1

Appendix C

Laboratory Analytical Report

PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735
VA Certification No. 460211
DoD ELAP: L-A-B Accredited Certificate No. L2307
ISO/IEC 17025: L-A-B Accredited Certificate No. L2307
NELAC Cert No. E87519

Case Narrative

11/10/2014

Hart & Hickman (Raleigh)
Laura Robertson
3334 Hillsborough St.
Raleigh, NC 27607

Project: Trion, Inc.
Project No.: JCI-001
Lab Submittal Date: 10/24/2014
Prism Work Order: 4100463

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Narrative Notes:

Methane, Ethane, Ethene and TOC subcontracted to GCAL. Laboratory report is attached.

The results in this report relate only to the samples as submitted to the laboratory and the test results meet all requirements of NELAC except for those instances indicated in the case narrative and/or test comments.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Robbi A. Jones

President/Project Manager

Reviewed By Robbi A. Jones

President/Project Manager

Data Qualifiers Key Reference:

CCV	CCV result is above the control limits. Analyte not detected in the sample. No further action taken.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

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Sample Receipt Summary

11/10/2014

Prism Work Order: 4100463

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
MW-17	4100463-01	Water	10/23/14	10/24/14
MW-16	4100463-02	Water	10/23/14	10/24/14
MW-13	4100463-03	Water	10/23/14	10/24/14
DMW-1	4100463-04	Water	10/23/14	10/24/14
MW-14	4100463-05	Water	10/23/14	10/24/14
MW-7	4100463-06	Water	10/23/14	10/24/14
MW-8	4100463-07	Water	10/23/14	10/24/14
TMW-4	4100463-08	Water	10/23/14	10/24/14
TMW-1	4100463-09	Water	10/23/14	10/24/14
Dup-1	4100463-10	Water	10/23/14	10/24/14
Trip Blank	4100463-11	Water	10/23/14	10/24/14

Samples were received in good condition at 2.0 degrees C unless otherwise noted.

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Summary of Detections

11/10/2014

Prism Work Order: 4100463

Prism ID	Client ID	Parameter	Method	Result	Units
4100463-01	MW-17	Chloride	*9056A	9.7	mg/L
4100463-01	MW-17	Nitrate as N	*9056A	1.1	mg/L
4100463-01	MW-17	Sulfate	*9056A	8.2	mg/L
4100463-01	MW-17	cis-1,2-Dichloroethylene	*8260B	5.8	ug/L
4100463-01	MW-17	Trichloroethylene	*8260B	2.4	ug/L
4100463-02	MW-16	Chloride	*9056A	7.7	mg/L
4100463-02	MW-16	Nitrate as N	*9056A	0.13	mg/L
4100463-03	MW-13	Chloride	*9056A	16	mg/L
4100463-03	MW-13	Nitrate as N	*9056A	0.47	mg/L
4100463-03	MW-13	Sulfate	*9056A	7.1	mg/L
4100463-03	MW-13	Chloroform	*8260B	0.65	ug/L
4100463-03	MW-13	cis-1,2-Dichloroethylene	*8260B	47	ug/L
4100463-03	MW-13	trans-1,2-Dichloroethylene	*8260B	1.8	ug/L
4100463-03	MW-13	Trichloroethylene	*8260B	25	ug/L
4100463-04	DMW-1	Chloride	*9056A	3.6	mg/L
4100463-04	DMW-1	Nitrate as N	*9056A	0.13	mg/L
4100463-04	DMW-1	Sulfate	*9056A	1.3	mg/L
4100463-05	MW-14	Chloride	*9056A	4.1	mg/L
4100463-05	MW-14	Nitrate as N	*9056A	0.27	mg/L
4100463-05	MW-14	Sulfate	*9056A	5.1	mg/L
4100463-06	MW-7	Chloride	*9056A	5.0	mg/L
4100463-07	MW-8	Chloride	*9056A	13	mg/L
4100463-07	MW-8	Nitrate as N	*9056A	0.22	mg/L
4100463-07	MW-8	Sulfate	*9056A	1.0	mg/L
4100463-07	MW-8	cis-1,2-Dichloroethylene	*8260B	130	ug/L
4100463-07	MW-8	trans-1,2-Dichloroethylene	*8260B	10	ug/L
4100463-07	MW-8	Trichloroethylene	*8260B	55	ug/L
4100463-08	TMW-4	Chloride	*9056A	10	mg/L
4100463-08	TMW-4	Nitrate as N	*9056A	0.13	mg/L
4100463-08	TMW-4	cis-1,2-Dichloroethylene	*8260B	62	ug/L
4100463-08	TMW-4	trans-1,2-Dichloroethylene	*8260B	3.7	ug/L
4100463-08	TMW-4	Trichloroethylene	*8260B	12	ug/L
4100463-09	TMW-1	Chloride	*9056A	13	mg/L
4100463-09	TMW-1	Sulfate	*9056A	11	mg/L
4100463-10	Dup-1	Chloride	*9056A	16	mg/L
4100463-10	Dup-1	Nitrate as N	*9056A	0.47	mg/L
4100463-10	Dup-1	Sulfate	*9056A	7.2	mg/L
4100463-10	Dup-1	Chloroform	*8260B	0.62	ug/L
4100463-10	Dup-1	cis-1,2-Dichloroethylene	*8260B	46	ug/L
4100463-10	Dup-1	trans-1,2-Dichloroethylene	*8260B	1.9	ug/L
4100463-10	Dup-1	Trichloroethylene	*8260B	24	ug/L

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PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Laboratory Report

11/10/2014

Hart & Hickman (Raleigh)
Attn: Laura Robertson
3334 Hillsborough St.
Raleigh, NC 27607

Project: Trion, Inc.

Project No.: JCI-001
Sample Matrix: Water

Client Sample ID: MW-17
Prism Sample ID: 4100463-01
Prism Work Order: 4100463
Time Collected: 10/23/14 10:10
Time Submitted: 10/24/14 08:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**9.7**	**mg/L**	**1.0**	**0.13**	**1**	***9056A**	**10/24/14 18:29**	**CDE**	**P4J0467**
Nitrate as N	**1.1**	**mg/L**	**0.10**	**0.046**	**1**	***9056A**	**10/24/14 18:29**	**CDE**	**P4J0467**
Sulfate	**8.2**	**mg/L**	**1.0**	**0.13**	**1**	***9056A**	**10/24/14 18:29**	**CDE**	**P4J0467**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	*8260B	10/28/14 22:35	MSC	P4J0497
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	*8260B	10/28/14 22:35	MSC	P4J0497
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	*8260B	10/28/14 22:35	MSC	P4J0497
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	*8260B	10/28/14 22:35	MSC	P4J0497
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	*8260B	10/28/14 22:35	MSC	P4J0497
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	*8260B	10/28/14 22:35	MSC	P4J0497
1,1-Dichloropropylene	BRL	ug/L	0.50	0.061	1	*8260B	10/28/14 22:35	MSC	P4J0497
1,2,3-Trichlorobenzene	BRL CCV	ug/L	2.0	0.20	1	*8260B	10/28/14 22:35	MSC	P4J0497
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	*8260B	10/28/14 22:35	MSC	P4J0497
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	*8260B	10/28/14 22:35	MSC	P4J0497
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.048	1	*8260B	10/28/14 22:35	MSC	P4J0497
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	*8260B	10/28/14 22:35	MSC	P4J0497
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	*8260B	10/28/14 22:35	MSC	P4J0497
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/28/14 22:35	MSC	P4J0497
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	*8260B	10/28/14 22:35	MSC	P4J0497
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	*8260B	10/28/14 22:35	MSC	P4J0497
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.057	1	*8260B	10/28/14 22:35	MSC	P4J0497
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.074	1	*8260B	10/28/14 22:35	MSC	P4J0497
1,3-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	10/28/14 22:35	MSC	P4J0497
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	*8260B	10/28/14 22:35	MSC	P4J0497
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	10/28/14 22:35	MSC	P4J0497
2-Chloroethyl Vinyl Ether	BRL	ug/L	5.0	0.22	1	*8260B	10/28/14 22:35	MSC	P4J0497
2-Chlorotoluene	BRL	ug/L	0.50	0.038	1	*8260B	10/28/14 22:35	MSC	P4J0497
4-Chlorotoluene	BRL	ug/L	0.50	0.053	1	*8260B	10/28/14 22:35	MSC	P4J0497
4-Isopropyltoluene	BRL	ug/L	0.50	0.065	1	*8260B	10/28/14 22:35	MSC	P4J0497
Acetone	BRL	ug/L	5.0	0.62	1	*8260B	10/28/14 22:35	MSC	P4J0497
Acrolein	BRL	ug/L	20	1.1	1	*8260B	10/28/14 22:35	MSC	P4J0497
Acrylonitrile	BRL	ug/L	20	0.86	1	*8260B	10/28/14 22:35	MSC	P4J0497
Benzene	BRL	ug/L	0.50	0.072	1	*8260B	10/28/14 22:35	MSC	P4J0497
Bromobenzene	BRL	ug/L	0.50	0.064	1	*8260B	10/28/14 22:35	MSC	P4J0497
Bromochloromethane	BRL	ug/L	0.50	0.13	1	*8260B	10/28/14 22:35	MSC	P4J0497
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/28/14 22:35	MSC	P4J0497
Bromoform	BRL	ug/L	1.0	0.27	1	*8260B	10/28/14 22:35	MSC	P4J0497
Bromomethane	BRL	ug/L	1.0	0.47	1	*8260B	10/28/14 22:35	MSC	P4J0497
Carbon disulfide	BRL	ug/L	5.0	1.4	1	*8260B	10/28/14 22:35	MSC	P4J0497
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	*8260B	10/28/14 22:35	MSC	P4J0497
Chlorobenzene	BRL	ug/L	0.50	0.061	1	*8260B	10/28/14 22:35	MSC	P4J0497
Chloroethane	BRL	ug/L	0.50	0.13	1	*8260B	10/28/14 22:35	MSC	P4J0497

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Laboratory Report

11/10/2014

Hart & Hickman (Raleigh)
Attn: Laura Robertson
3334 Hillsborough St.
Raleigh, NC 27607

Project: Trion, Inc.

Project No.: JCI-001
Sample Matrix: Water

Client Sample ID: MW-17
Prism Sample ID: 4100463-01
Prism Work Order: 4100463
Time Collected: 10/23/14 10:10
Time Submitted: 10/24/14 08:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloroform	BRL	ug/L	0.50	0.089	1	*8260B	10/28/14 22:35	MSC	P4J0497
Chloromethane	BRL	ug/L	0.50	0.11	1	*8260B	10/28/14 22:35	MSC	P4J0497
cis-1,2-Dichloroethylene	**5.8**	**ug/L**	**0.50**	**0.076**	**1**	***8260B**	**10/28/14 22:35**	**MSC**	**P4J0497**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	*8260B	10/28/14 22:35	MSC	P4J0497
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	*8260B	10/28/14 22:35	MSC	P4J0497
Dibromomethane	BRL	ug/L	0.50	0.13	1	*8260B	10/28/14 22:35	MSC	P4J0497
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	10/28/14 22:35	MSC	P4J0497
Ethylbenzene	BRL	ug/L	0.50	0.067	1	*8260B	10/28/14 22:35	MSC	P4J0497
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	*8260B	10/28/14 22:35	MSC	P4J0497
Isopropyl Ether	BRL	ug/L	0.50	0.043	1	*8260B	10/28/14 22:35	MSC	P4J0497
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.072	1	*8260B	10/28/14 22:35	MSC	P4J0497
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	*8260B	10/28/14 22:35	MSC	P4J0497
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	*8260B	10/28/14 22:35	MSC	P4J0497
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	*8260B	10/28/14 22:35	MSC	P4J0497
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	*8260B	10/28/14 22:35	MSC	P4J0497
Methylene Chloride	BRL	ug/L	1.0	0.44	1	*8260B	10/28/14 22:35	MSC	P4J0497
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.070	1	*8260B	10/28/14 22:35	MSC	P4J0497
Naphthalene	BRL	ug/L	1.0	0.098	1	*8260B	10/28/14 22:35	MSC	P4J0497
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	*8260B	10/28/14 22:35	MSC	P4J0497
n-Propylbenzene	BRL	ug/L	0.50	0.060	1	*8260B	10/28/14 22:35	MSC	P4J0497
o-Xylene	BRL	ug/L	0.50	0.046	1	*8260B	10/28/14 22:35	MSC	P4J0497
sec-Butylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	10/28/14 22:35	MSC	P4J0497
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	10/28/14 22:35	MSC	P4J0497
tert-Butylbenzene	BRL	ug/L	0.50	0.080	1	*8260B	10/28/14 22:35	MSC	P4J0497
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	*8260B	10/28/14 22:35	MSC	P4J0497
Toluene	BRL	ug/L	0.50	0.042	1	*8260B	10/28/14 22:35	MSC	P4J0497
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	*8260B	10/28/14 22:35	MSC	P4J0497
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	*8260B	10/28/14 22:35	MSC	P4J0497
Trichloroethylene	**2.4**	**ug/L**	**0.50**	**0.054**	**1**	***8260B**	**10/28/14 22:35**	**MSC**	**P4J0497**
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	*8260B	10/28/14 22:35	MSC	P4J0497
Vinyl acetate	BRL	ug/L	2.0	0.10	1	*8260B	10/28/14 22:35	MSC	P4J0497
Vinyl chloride	BRL	ug/L	0.50	0.16	1	*8260B	10/28/14 22:35	MSC	P4J0497

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*103 %*	*80-124*
Dibromofluoromethane	*105 %*	*75-129*
Toluene-d8	*103 %*	*77-123*

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Laboratory Report

11/10/2014

Hart & Hickman (Raleigh)
Attn: Laura Robertson
3334 Hillsborough St.
Raleigh, NC 27607

Project: Trion, Inc.

Project No.: JCI-001
Sample Matrix: Water

Client Sample ID: MW-16
Prism Sample ID: 4100463-02
Prism Work Order: 4100463
Time Collected: 10/23/14 10:35
Time Submitted: 10/24/14 08:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**7.7**	**mg/L**	**1.0**	**0.13**	**1**	***9056A**	**10/24/14 19:18**	**CDE**	**P4J0467**
Nitrate as N	**0.13**	**mg/L**	**0.10**	**0.046**	**1**	***9056A**	**10/24/14 19:18**	**CDE**	**P4J0467**
Sulfate	BRL	mg/L	1.0	0.13	1	*9056A	10/24/14 19:18	CDE	P4J0467
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	*8260B	10/28/14 23:01	MSC	P4J0497
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	*8260B	10/28/14 23:01	MSC	P4J0497
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	*8260B	10/28/14 23:01	MSC	P4J0497
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	*8260B	10/28/14 23:01	MSC	P4J0497
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	*8260B	10/28/14 23:01	MSC	P4J0497
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	*8260B	10/28/14 23:01	MSC	P4J0497
1,1-Dichloropropylene	BRL	ug/L	0.50	0.061	1	*8260B	10/28/14 23:01	MSC	P4J0497
1,2,3-Trichlorobenzene	BRL CCV	ug/L	2.0	0.20	1	*8260B	10/28/14 23:01	MSC	P4J0497
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	*8260B	10/28/14 23:01	MSC	P4J0497
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	*8260B	10/28/14 23:01	MSC	P4J0497
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.048	1	*8260B	10/28/14 23:01	MSC	P4J0497
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	*8260B	10/28/14 23:01	MSC	P4J0497
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	*8260B	10/28/14 23:01	MSC	P4J0497
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/28/14 23:01	MSC	P4J0497
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	*8260B	10/28/14 23:01	MSC	P4J0497
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	*8260B	10/28/14 23:01	MSC	P4J0497
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.057	1	*8260B	10/28/14 23:01	MSC	P4J0497
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.074	1	*8260B	10/28/14 23:01	MSC	P4J0497
1,3-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	10/28/14 23:01	MSC	P4J0497
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	*8260B	10/28/14 23:01	MSC	P4J0497
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	10/28/14 23:01	MSC	P4J0497
2-Chloroethyl Vinyl Ether	BRL	ug/L	5.0	0.22	1	*8260B	10/28/14 23:01	MSC	P4J0497
2-Chlorotoluene	BRL	ug/L	0.50	0.038	1	*8260B	10/28/14 23:01	MSC	P4J0497
4-Chlorotoluene	BRL	ug/L	0.50	0.053	1	*8260B	10/28/14 23:01	MSC	P4J0497
4-Isopropyltoluene	BRL	ug/L	0.50	0.065	1	*8260B	10/28/14 23:01	MSC	P4J0497
Acetone	BRL	ug/L	5.0	0.62	1	*8260B	10/28/14 23:01	MSC	P4J0497
Acrolein	BRL	ug/L	20	1.1	1	*8260B	10/28/14 23:01	MSC	P4J0497
Acrylonitrile	BRL	ug/L	20	0.86	1	*8260B	10/28/14 23:01	MSC	P4J0497
Benzene	BRL	ug/L	0.50	0.072	1	*8260B	10/28/14 23:01	MSC	P4J0497
Bromobenzene	BRL	ug/L	0.50	0.064	1	*8260B	10/28/14 23:01	MSC	P4J0497
Bromochloromethane	BRL	ug/L	0.50	0.13	1	*8260B	10/28/14 23:01	MSC	P4J0497
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/28/14 23:01	MSC	P4J0497
Bromoform	BRL	ug/L	1.0	0.27	1	*8260B	10/28/14 23:01	MSC	P4J0497
Bromomethane	BRL	ug/L	1.0	0.47	1	*8260B	10/28/14 23:01	MSC	P4J0497
Carbon disulfide	BRL	ug/L	5.0	1.4	1	*8260B	10/28/14 23:01	MSC	P4J0497
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	*8260B	10/28/14 23:01	MSC	P4J0497
Chlorobenzene	BRL	ug/L	0.50	0.061	1	*8260B	10/28/14 23:01	MSC	P4J0497
Chloroethane	BRL	ug/L	0.50	0.13	1	*8260B	10/28/14 23:01	MSC	P4J0497

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Laboratory Report

11/10/2014

Hart & Hickman (Raleigh)
Attn: Laura Robertson
3334 Hillsborough St.
Raleigh, NC 27607

Project: Trion, Inc.

Project No.: JCI-001
Sample Matrix: Water

Client Sample ID: MW-16
Prism Sample ID: 4100463-02
Prism Work Order: 4100463
Time Collected: 10/23/14 10:35
Time Submitted: 10/24/14 08:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloroform	BRL	ug/L	0.50	0.089	1	*8260B	10/28/14 23:01	MSC	P4J0497
Chloromethane	BRL	ug/L	0.50	0.11	1	*8260B	10/28/14 23:01	MSC	P4J0497
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	*8260B	10/28/14 23:01	MSC	P4J0497
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	*8260B	10/28/14 23:01	MSC	P4J0497
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	*8260B	10/28/14 23:01	MSC	P4J0497
Dibromomethane	BRL	ug/L	0.50	0.13	1	*8260B	10/28/14 23:01	MSC	P4J0497
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	10/28/14 23:01	MSC	P4J0497
Ethylbenzene	BRL	ug/L	0.50	0.067	1	*8260B	10/28/14 23:01	MSC	P4J0497
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	*8260B	10/28/14 23:01	MSC	P4J0497
Isopropyl Ether	BRL	ug/L	0.50	0.043	1	*8260B	10/28/14 23:01	MSC	P4J0497
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.072	1	*8260B	10/28/14 23:01	MSC	P4J0497
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	*8260B	10/28/14 23:01	MSC	P4J0497
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	*8260B	10/28/14 23:01	MSC	P4J0497
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	*8260B	10/28/14 23:01	MSC	P4J0497
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	*8260B	10/28/14 23:01	MSC	P4J0497
Methylene Chloride	BRL	ug/L	1.0	0.44	1	*8260B	10/28/14 23:01	MSC	P4J0497
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.070	1	*8260B	10/28/14 23:01	MSC	P4J0497
Naphthalene	BRL	ug/L	1.0	0.098	1	*8260B	10/28/14 23:01	MSC	P4J0497
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	*8260B	10/28/14 23:01	MSC	P4J0497
n-Propylbenzene	BRL	ug/L	0.50	0.060	1	*8260B	10/28/14 23:01	MSC	P4J0497
o-Xylene	BRL	ug/L	0.50	0.046	1	*8260B	10/28/14 23:01	MSC	P4J0497
sec-Butylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	10/28/14 23:01	MSC	P4J0497
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	10/28/14 23:01	MSC	P4J0497
tert-Butylbenzene	BRL	ug/L	0.50	0.080	1	*8260B	10/28/14 23:01	MSC	P4J0497
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	*8260B	10/28/14 23:01	MSC	P4J0497
Toluene	BRL	ug/L	0.50	0.042	1	*8260B	10/28/14 23:01	MSC	P4J0497
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	*8260B	10/28/14 23:01	MSC	P4J0497
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	*8260B	10/28/14 23:01	MSC	P4J0497
Trichloroethylene	BRL	ug/L	0.50	0.054	1	*8260B	10/28/14 23:01	MSC	P4J0497
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	*8260B	10/28/14 23:01	MSC	P4J0497
Vinyl acetate	BRL	ug/L	2.0	0.10	1	*8260B	10/28/14 23:01	MSC	P4J0497
Vinyl chloride	BRL	ug/L	0.50	0.16	1	*8260B	10/28/14 23:01	MSC	P4J0497

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*105 %*	*80-124*
Dibromofluoromethane	*102 %*	*75-129*
Toluene-d8	*100 %*	*77-123*

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
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Hart & Hickman (Raleigh)
Attn: Laura Robertson
3334 Hillsborough St.
Raleigh, NC 27607

Project: Trion, Inc.

Project No.: JCI-001
Sample Matrix: Water

Client Sample ID: MW-13
Prism Sample ID: 4100463-03
Prism Work Order: 4100463
Time Collected: 10/23/14 12:15
Time Submitted: 10/24/14 08:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**16**	**mg/L**	**1.0**	**0.13**	**1**	***9056A**	**10/24/14 19:34**	**CDE**	**P4J0467**
Nitrate as N	**0.47**	**mg/L**	**0.10**	**0.046**	**1**	***9056A**	**10/24/14 19:34**	**CDE**	**P4J0467**
Sulfate	**7.1**	**mg/L**	**1.0**	**0.13**	**1**	***9056A**	**10/24/14 19:34**	**CDE**	**P4J0467**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	*8260B	10/28/14 23:26	MSC	P4J0497
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	*8260B	10/28/14 23:26	MSC	P4J0497
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	*8260B	10/28/14 23:26	MSC	P4J0497
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	*8260B	10/28/14 23:26	MSC	P4J0497
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	*8260B	10/28/14 23:26	MSC	P4J0497
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	*8260B	10/28/14 23:26	MSC	P4J0497
1,1-Dichloropropylene	BRL	ug/L	0.50	0.061	1	*8260B	10/28/14 23:26	MSC	P4J0497
1,2,3-Trichlorobenzene	BRL CCV	ug/L	2.0	0.20	1	*8260B	10/28/14 23:26	MSC	P4J0497
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	*8260B	10/28/14 23:26	MSC	P4J0497
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	*8260B	10/28/14 23:26	MSC	P4J0497
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.048	1	*8260B	10/28/14 23:26	MSC	P4J0497
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	*8260B	10/28/14 23:26	MSC	P4J0497
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	*8260B	10/28/14 23:26	MSC	P4J0497
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/28/14 23:26	MSC	P4J0497
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	*8260B	10/28/14 23:26	MSC	P4J0497
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	*8260B	10/28/14 23:26	MSC	P4J0497
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.057	1	*8260B	10/28/14 23:26	MSC	P4J0497
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.074	1	*8260B	10/28/14 23:26	MSC	P4J0497
1,3-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	10/28/14 23:26	MSC	P4J0497
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	*8260B	10/28/14 23:26	MSC	P4J0497
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	10/28/14 23:26	MSC	P4J0497
2-Chloroethyl Vinyl Ether	BRL	ug/L	5.0	0.22	1	*8260B	10/28/14 23:26	MSC	P4J0497
2-Chlorotoluene	BRL	ug/L	0.50	0.038	1	*8260B	10/28/14 23:26	MSC	P4J0497
4-Chlorotoluene	BRL	ug/L	0.50	0.053	1	*8260B	10/28/14 23:26	MSC	P4J0497
4-Isopropyltoluene	BRL	ug/L	0.50	0.065	1	*8260B	10/28/14 23:26	MSC	P4J0497
Acetone	BRL	ug/L	5.0	0.62	1	*8260B	10/28/14 23:26	MSC	P4J0497
Acrolein	BRL	ug/L	20	1.1	1	*8260B	10/28/14 23:26	MSC	P4J0497
Acrylonitrile	BRL	ug/L	20	0.86	1	*8260B	10/28/14 23:26	MSC	P4J0497
Benzene	BRL	ug/L	0.50	0.072	1	*8260B	10/28/14 23:26	MSC	P4J0497
Bromobenzene	BRL	ug/L	0.50	0.064	1	*8260B	10/28/14 23:26	MSC	P4J0497
Bromochloromethane	BRL	ug/L	0.50	0.13	1	*8260B	10/28/14 23:26	MSC	P4J0497
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/28/14 23:26	MSC	P4J0497
Bromoform	BRL	ug/L	1.0	0.27	1	*8260B	10/28/14 23:26	MSC	P4J0497
Bromomethane	BRL	ug/L	1.0	0.47	1	*8260B	10/28/14 23:26	MSC	P4J0497
Carbon disulfide	BRL	ug/L	5.0	1.4	1	*8260B	10/28/14 23:26	MSC	P4J0497
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	*8260B	10/28/14 23:26	MSC	P4J0497
Chlorobenzene	BRL	ug/L	0.50	0.061	1	*8260B	10/28/14 23:26	MSC	P4J0497
Chloroethane	BRL	ug/L	0.50	0.13	1	*8260B	10/28/14 23:26	MSC	P4J0497

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Laboratory Report

11/10/2014

Hart & Hickman (Raleigh)
Attn: Laura Robertson
3334 Hillsborough St.
Raleigh, NC 27607

Project: Trion, Inc.

Project No.: JCI-001
Sample Matrix: Water

Client Sample ID: MW-13
Prism Sample ID: 4100463-03
Prism Work Order: 4100463
Time Collected: 10/23/14 12:15
Time Submitted: 10/24/14 08:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloroform	**0.65**	**ug/L**	**0.50**	**0.089**	**1**	***8260B**	**10/28/14 23:26**	**MSC**	**P4J0497**
Chloromethane	BRL	ug/L	0.50	0.11	1	*8260B	10/28/14 23:26	MSC	P4J0497
cis-1,2-Dichloroethylene	**47**	**ug/L**	**0.50**	**0.076**	**1**	***8260B**	**10/28/14 23:26**	**MSC**	**P4J0497**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	*8260B	10/28/14 23:26	MSC	P4J0497
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	*8260B	10/28/14 23:26	MSC	P4J0497
Dibromomethane	BRL	ug/L	0.50	0.13	1	*8260B	10/28/14 23:26	MSC	P4J0497
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	10/28/14 23:26	MSC	P4J0497
Ethylbenzene	BRL	ug/L	0.50	0.067	1	*8260B	10/28/14 23:26	MSC	P4J0497
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	*8260B	10/28/14 23:26	MSC	P4J0497
Isopropyl Ether	BRL	ug/L	0.50	0.043	1	*8260B	10/28/14 23:26	MSC	P4J0497
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.072	1	*8260B	10/28/14 23:26	MSC	P4J0497
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	*8260B	10/28/14 23:26	MSC	P4J0497
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	*8260B	10/28/14 23:26	MSC	P4J0497
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	*8260B	10/28/14 23:26	MSC	P4J0497
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	*8260B	10/28/14 23:26	MSC	P4J0497
Methylene Chloride	BRL	ug/L	1.0	0.44	1	*8260B	10/28/14 23:26	MSC	P4J0497
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.070	1	*8260B	10/28/14 23:26	MSC	P4J0497
Naphthalene	BRL	ug/L	1.0	0.098	1	*8260B	10/28/14 23:26	MSC	P4J0497
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	*8260B	10/28/14 23:26	MSC	P4J0497
n-Propylbenzene	BRL	ug/L	0.50	0.060	1	*8260B	10/28/14 23:26	MSC	P4J0497
o-Xylene	BRL	ug/L	0.50	0.046	1	*8260B	10/28/14 23:26	MSC	P4J0497
sec-Butylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	10/28/14 23:26	MSC	P4J0497
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	10/28/14 23:26	MSC	P4J0497
tert-Butylbenzene	BRL	ug/L	0.50	0.080	1	*8260B	10/28/14 23:26	MSC	P4J0497
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	*8260B	10/28/14 23:26	MSC	P4J0497
Toluene	BRL	ug/L	0.50	0.042	1	*8260B	10/28/14 23:26	MSC	P4J0497
trans-1,2-Dichloroethylene	**1.8**	**ug/L**	**0.50**	**0.12**	**1**	***8260B**	**10/28/14 23:26**	**MSC**	**P4J0497**
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	*8260B	10/28/14 23:26	MSC	P4J0497
Trichloroethylene	**25**	**ug/L**	**0.50**	**0.054**	**1**	***8260B**	**10/28/14 23:26**	**MSC**	**P4J0497**
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	*8260B	10/28/14 23:26	MSC	P4J0497
Vinyl acetate	BRL	ug/L	2.0	0.10	1	*8260B	10/28/14 23:26	MSC	P4J0497
Vinyl chloride	BRL	ug/L	0.50	0.16	1	*8260B	10/28/14 23:26	MSC	P4J0497

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*107 %*	*80-124*
Dibromofluoromethane	*104 %*	*75-129*
Toluene-d8	*102 %*	*77-123*

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Hart & Hickman (Raleigh)
Attn: Laura Robertson
3334 Hillsborough St.
Raleigh, NC 27607

Project: Trion, Inc.

Project No.: JCI-001
Sample Matrix: Water

Client Sample ID: DMW-1
Prism Sample ID: 4100463-04
Prism Work Order: 4100463
Time Collected: 10/23/14 13:40
Time Submitted: 10/24/14 08:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**3.6**	**mg/L**	**1.0**	**0.13**	**1**	***9056A**	**10/24/14 20:07**	**CDE**	**P4J0467**
Nitrate as N	**0.13**	**mg/L**	**0.10**	**0.046**	**1**	***9056A**	**10/24/14 20:07**	**CDE**	**P4J0467**
Sulfate	**1.3**	**mg/L**	**1.0**	**0.13**	**1**	***9056A**	**10/24/14 20:07**	**CDE**	**P4J0467**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	*8260B	10/28/14 23:51	MSC	P4J0497
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	*8260B	10/28/14 23:51	MSC	P4J0497
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	*8260B	10/28/14 23:51	MSC	P4J0497
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	*8260B	10/28/14 23:51	MSC	P4J0497
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	*8260B	10/28/14 23:51	MSC	P4J0497
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	*8260B	10/28/14 23:51	MSC	P4J0497
1,1-Dichloropropylene	BRL	ug/L	0.50	0.061	1	*8260B	10/28/14 23:51	MSC	P4J0497
1,2,3-Trichlorobenzene	BRL CCV	ug/L	2.0	0.20	1	*8260B	10/28/14 23:51	MSC	P4J0497
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	*8260B	10/28/14 23:51	MSC	P4J0497
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	*8260B	10/28/14 23:51	MSC	P4J0497
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.048	1	*8260B	10/28/14 23:51	MSC	P4J0497
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	*8260B	10/28/14 23:51	MSC	P4J0497
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	*8260B	10/28/14 23:51	MSC	P4J0497
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/28/14 23:51	MSC	P4J0497
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	*8260B	10/28/14 23:51	MSC	P4J0497
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	*8260B	10/28/14 23:51	MSC	P4J0497
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.057	1	*8260B	10/28/14 23:51	MSC	P4J0497
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.074	1	*8260B	10/28/14 23:51	MSC	P4J0497
1,3-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	10/28/14 23:51	MSC	P4J0497
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	*8260B	10/28/14 23:51	MSC	P4J0497
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	10/28/14 23:51	MSC	P4J0497
2-Chloroethyl Vinyl Ether	BRL	ug/L	5.0	0.22	1	*8260B	10/28/14 23:51	MSC	P4J0497
2-Chlorotoluene	BRL	ug/L	0.50	0.038	1	*8260B	10/28/14 23:51	MSC	P4J0497
4-Chlorotoluene	BRL	ug/L	0.50	0.053	1	*8260B	10/28/14 23:51	MSC	P4J0497
4-Isopropyltoluene	BRL	ug/L	0.50	0.065	1	*8260B	10/28/14 23:51	MSC	P4J0497
Acetone	BRL	ug/L	5.0	0.62	1	*8260B	10/28/14 23:51	MSC	P4J0497
Acrolein	BRL	ug/L	20	1.1	1	*8260B	10/28/14 23:51	MSC	P4J0497
Acrylonitrile	BRL	ug/L	20	0.86	1	*8260B	10/28/14 23:51	MSC	P4J0497
Benzene	BRL	ug/L	0.50	0.072	1	*8260B	10/28/14 23:51	MSC	P4J0497
Bromobenzene	BRL	ug/L	0.50	0.064	1	*8260B	10/28/14 23:51	MSC	P4J0497
Bromochloromethane	BRL	ug/L	0.50	0.13	1	*8260B	10/28/14 23:51	MSC	P4J0497
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/28/14 23:51	MSC	P4J0497
Bromoform	BRL	ug/L	1.0	0.27	1	*8260B	10/28/14 23:51	MSC	P4J0497
Bromomethane	BRL	ug/L	1.0	0.47	1	*8260B	10/28/14 23:51	MSC	P4J0497
Carbon disulfide	BRL	ug/L	5.0	1.4	1	*8260B	10/28/14 23:51	MSC	P4J0497
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	*8260B	10/28/14 23:51	MSC	P4J0497
Chlorobenzene	BRL	ug/L	0.50	0.061	1	*8260B	10/28/14 23:51	MSC	P4J0497
Chloroethane	BRL	ug/L	0.50	0.13	1	*8260B	10/28/14 23:51	MSC	P4J0497

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Hart & Hickman (Raleigh)
Attn: Laura Robertson
3334 Hillsborough St.
Raleigh, NC 27607

Project: Trion, Inc.

Project No.: JCI-001
Sample Matrix: Water

Client Sample ID: DMW-1
Prism Sample ID: 4100463-04
Prism Work Order: 4100463
Time Collected: 10/23/14 13:40
Time Submitted: 10/24/14 08:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloroform	BRL	ug/L	0.50	0.089	1	*8260B	10/28/14 23:51	MSC	P4J0497
Chloromethane	BRL	ug/L	0.50	0.11	1	*8260B	10/28/14 23:51	MSC	P4J0497
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	*8260B	10/28/14 23:51	MSC	P4J0497
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	*8260B	10/28/14 23:51	MSC	P4J0497
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	*8260B	10/28/14 23:51	MSC	P4J0497
Dibromomethane	BRL	ug/L	0.50	0.13	1	*8260B	10/28/14 23:51	MSC	P4J0497
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	10/28/14 23:51	MSC	P4J0497
Ethylbenzene	BRL	ug/L	0.50	0.067	1	*8260B	10/28/14 23:51	MSC	P4J0497
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	*8260B	10/28/14 23:51	MSC	P4J0497
Isopropyl Ether	BRL	ug/L	0.50	0.043	1	*8260B	10/28/14 23:51	MSC	P4J0497
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.072	1	*8260B	10/28/14 23:51	MSC	P4J0497
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	*8260B	10/28/14 23:51	MSC	P4J0497
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	*8260B	10/28/14 23:51	MSC	P4J0497
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	*8260B	10/28/14 23:51	MSC	P4J0497
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	*8260B	10/28/14 23:51	MSC	P4J0497
Methylene Chloride	BRL	ug/L	1.0	0.44	1	*8260B	10/28/14 23:51	MSC	P4J0497
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.070	1	*8260B	10/28/14 23:51	MSC	P4J0497
Naphthalene	BRL	ug/L	1.0	0.098	1	*8260B	10/28/14 23:51	MSC	P4J0497
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	*8260B	10/28/14 23:51	MSC	P4J0497
n-Propylbenzene	BRL	ug/L	0.50	0.060	1	*8260B	10/28/14 23:51	MSC	P4J0497
o-Xylene	BRL	ug/L	0.50	0.046	1	*8260B	10/28/14 23:51	MSC	P4J0497
sec-Butylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	10/28/14 23:51	MSC	P4J0497
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	10/28/14 23:51	MSC	P4J0497
tert-Butylbenzene	BRL	ug/L	0.50	0.080	1	*8260B	10/28/14 23:51	MSC	P4J0497
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	*8260B	10/28/14 23:51	MSC	P4J0497
Toluene	BRL	ug/L	0.50	0.042	1	*8260B	10/28/14 23:51	MSC	P4J0497
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	*8260B	10/28/14 23:51	MSC	P4J0497
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	*8260B	10/28/14 23:51	MSC	P4J0497
Trichloroethylene	BRL	ug/L	0.50	0.054	1	*8260B	10/28/14 23:51	MSC	P4J0497
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	*8260B	10/28/14 23:51	MSC	P4J0497
Vinyl acetate	BRL	ug/L	2.0	0.10	1	*8260B	10/28/14 23:51	MSC	P4J0497
Vinyl chloride	BRL	ug/L	0.50	0.16	1	*8260B	10/28/14 23:51	MSC	P4J0497

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*102 %*	*80-124*
Dibromofluoromethane	*101 %*	*75-129*
Toluene-d8	*100 %*	*77-123*

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Hart & Hickman (Raleigh)
Attn: Laura Robertson
3334 Hillsborough St.
Raleigh, NC 27607

Project: Trion, Inc.

Project No.: JCI-001
Sample Matrix: Water

Client Sample ID: MW-14
Prism Sample ID: 4100463-05
Prism Work Order: 4100463
Time Collected: 10/23/14 13:50
Time Submitted: 10/24/14 08:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**4.1**	**mg/L**	**1.0**	**0.13**	**1**	***9056A**	**10/24/14 20:23**	**CDE**	**P4J0467**
Nitrate as N	**0.27**	**mg/L**	**0.10**	**0.046**	**1**	***9056A**	**10/24/14 20:23**	**CDE**	**P4J0467**
Sulfate	**5.1**	**mg/L**	**1.0**	**0.13**	**1**	***9056A**	**10/24/14 20:23**	**CDE**	**P4J0467**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	*8260B	10/29/14 0:42	MSC	P4J0497
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	*8260B	10/29/14 0:42	MSC	P4J0497
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	*8260B	10/29/14 0:42	MSC	P4J0497
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	*8260B	10/29/14 0:42	MSC	P4J0497
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	*8260B	10/29/14 0:42	MSC	P4J0497
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	*8260B	10/29/14 0:42	MSC	P4J0497
1,1-Dichloropropylene	BRL	ug/L	0.50	0.061	1	*8260B	10/29/14 0:42	MSC	P4J0497
1,2,3-Trichlorobenzene	BRL CCV	ug/L	2.0	0.20	1	*8260B	10/29/14 0:42	MSC	P4J0497
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	*8260B	10/29/14 0:42	MSC	P4J0497
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	*8260B	10/29/14 0:42	MSC	P4J0497
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.048	1	*8260B	10/29/14 0:42	MSC	P4J0497
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	*8260B	10/29/14 0:42	MSC	P4J0497
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	*8260B	10/29/14 0:42	MSC	P4J0497
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/29/14 0:42	MSC	P4J0497
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	*8260B	10/29/14 0:42	MSC	P4J0497
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	*8260B	10/29/14 0:42	MSC	P4J0497
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.057	1	*8260B	10/29/14 0:42	MSC	P4J0497
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.074	1	*8260B	10/29/14 0:42	MSC	P4J0497
1,3-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	10/29/14 0:42	MSC	P4J0497
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	*8260B	10/29/14 0:42	MSC	P4J0497
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	10/29/14 0:42	MSC	P4J0497
2-Chloroethyl Vinyl Ether	BRL	ug/L	5.0	0.22	1	*8260B	10/29/14 0:42	MSC	P4J0497
2-Chlorotoluene	BRL	ug/L	0.50	0.038	1	*8260B	10/29/14 0:42	MSC	P4J0497
4-Chlorotoluene	BRL	ug/L	0.50	0.053	1	*8260B	10/29/14 0:42	MSC	P4J0497
4-Isopropyltoluene	BRL	ug/L	0.50	0.065	1	*8260B	10/29/14 0:42	MSC	P4J0497
Acetone	BRL	ug/L	5.0	0.62	1	*8260B	10/29/14 0:42	MSC	P4J0497
Acrolein	BRL	ug/L	20	1.1	1	*8260B	10/29/14 0:42	MSC	P4J0497
Acrylonitrile	BRL	ug/L	20	0.86	1	*8260B	10/29/14 0:42	MSC	P4J0497
Benzene	BRL	ug/L	0.50	0.072	1	*8260B	10/29/14 0:42	MSC	P4J0497
Bromobenzene	BRL	ug/L	0.50	0.064	1	*8260B	10/29/14 0:42	MSC	P4J0497
Bromochloromethane	BRL	ug/L	0.50	0.13	1	*8260B	10/29/14 0:42	MSC	P4J0497
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/29/14 0:42	MSC	P4J0497
Bromoform	BRL	ug/L	1.0	0.27	1	*8260B	10/29/14 0:42	MSC	P4J0497
Bromomethane	BRL	ug/L	1.0	0.47	1	*8260B	10/29/14 0:42	MSC	P4J0497
Carbon disulfide	BRL	ug/L	5.0	1.4	1	*8260B	10/29/14 0:42	MSC	P4J0497
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	*8260B	10/29/14 0:42	MSC	P4J0497
Chlorobenzene	BRL	ug/L	0.50	0.061	1	*8260B	10/29/14 0:42	MSC	P4J0497
Chloroethane	BRL	ug/L	0.50	0.13	1	*8260B	10/29/14 0:42	MSC	P4J0497

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Laboratory Report

11/10/2014

Hart & Hickman (Raleigh)
Attn: Laura Robertson
3334 Hillsborough St.
Raleigh, NC 27607

Project: Trion, Inc.

Project No.: JCI-001
Sample Matrix: Water

Client Sample ID: MW-14
Prism Sample ID: 4100463-05
Prism Work Order: 4100463
Time Collected: 10/23/14 13:50
Time Submitted: 10/24/14 08:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloroform	BRL	ug/L	0.50	0.089	1	*8260B	10/29/14 0:42	MSC	P4J0497
Chloromethane	BRL	ug/L	0.50	0.11	1	*8260B	10/29/14 0:42	MSC	P4J0497
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	*8260B	10/29/14 0:42	MSC	P4J0497
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	*8260B	10/29/14 0:42	MSC	P4J0497
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	*8260B	10/29/14 0:42	MSC	P4J0497
Dibromomethane	BRL	ug/L	0.50	0.13	1	*8260B	10/29/14 0:42	MSC	P4J0497
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	10/29/14 0:42	MSC	P4J0497
Ethylbenzene	BRL	ug/L	0.50	0.067	1	*8260B	10/29/14 0:42	MSC	P4J0497
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	*8260B	10/29/14 0:42	MSC	P4J0497
Isopropyl Ether	BRL	ug/L	0.50	0.043	1	*8260B	10/29/14 0:42	MSC	P4J0497
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.072	1	*8260B	10/29/14 0:42	MSC	P4J0497
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	*8260B	10/29/14 0:42	MSC	P4J0497
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	*8260B	10/29/14 0:42	MSC	P4J0497
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	*8260B	10/29/14 0:42	MSC	P4J0497
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	*8260B	10/29/14 0:42	MSC	P4J0497
Methylene Chloride	BRL	ug/L	1.0	0.44	1	*8260B	10/29/14 0:42	MSC	P4J0497
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.070	1	*8260B	10/29/14 0:42	MSC	P4J0497
Naphthalene	BRL	ug/L	1.0	0.098	1	*8260B	10/29/14 0:42	MSC	P4J0497
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	*8260B	10/29/14 0:42	MSC	P4J0497
n-Propylbenzene	BRL	ug/L	0.50	0.060	1	*8260B	10/29/14 0:42	MSC	P4J0497
o-Xylene	BRL	ug/L	0.50	0.046	1	*8260B	10/29/14 0:42	MSC	P4J0497
sec-Butylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	10/29/14 0:42	MSC	P4J0497
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	10/29/14 0:42	MSC	P4J0497
tert-Butylbenzene	BRL	ug/L	0.50	0.080	1	*8260B	10/29/14 0:42	MSC	P4J0497
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	*8260B	10/29/14 0:42	MSC	P4J0497
Toluene	BRL	ug/L	0.50	0.042	1	*8260B	10/29/14 0:42	MSC	P4J0497
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	*8260B	10/29/14 0:42	MSC	P4J0497
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	*8260B	10/29/14 0:42	MSC	P4J0497
Trichloroethylene	BRL	ug/L	0.50	0.054	1	*8260B	10/29/14 0:42	MSC	P4J0497
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	*8260B	10/29/14 0:42	MSC	P4J0497
Vinyl acetate	BRL	ug/L	2.0	0.10	1	*8260B	10/29/14 0:42	MSC	P4J0497
Vinyl chloride	BRL	ug/L	0.50	0.16	1	*8260B	10/29/14 0:42	MSC	P4J0497

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*106 %*	*80-124*
Dibromofluoromethane	*102 %*	*75-129*
Toluene-d8	*102 %*	*77-123*

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Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Hart & Hickman (Raleigh)
Attn: Laura Robertson
3334 Hillsborough St.
Raleigh, NC 27607

Project: Trion, Inc.

Project No.: JCI-001
Sample Matrix: Water

Client Sample ID: MW-7
Prism Sample ID: 4100463-06
Prism Work Order: 4100463
Time Collected: 10/23/14 15:10
Time Submitted: 10/24/14 08:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**5.0**	**mg/L**	**1.0**	**0.13**	**1**	***9056A**	**10/24/14 20:56**	**CDE**	**P4J0467**
Nitrate as N	BRL	mg/L	0.10	0.046	1	*9056A	10/24/14 20:56	CDE	P4J0467
Sulfate	BRL	mg/L	1.0	0.13	1	*9056A	10/24/14 20:56	CDE	P4J0467
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	*8260B	10/29/14 1:07	MSC	P4J0497
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	*8260B	10/29/14 1:07	MSC	P4J0497
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	*8260B	10/29/14 1:07	MSC	P4J0497
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	*8260B	10/29/14 1:07	MSC	P4J0497
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	*8260B	10/29/14 1:07	MSC	P4J0497
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	*8260B	10/29/14 1:07	MSC	P4J0497
1,1-Dichloropropylene	BRL	ug/L	0.50	0.061	1	*8260B	10/29/14 1:07	MSC	P4J0497
1,2,3-Trichlorobenzene	BRL CCV	ug/L	2.0	0.20	1	*8260B	10/29/14 1:07	MSC	P4J0497
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	*8260B	10/29/14 1:07	MSC	P4J0497
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	*8260B	10/29/14 1:07	MSC	P4J0497
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.048	1	*8260B	10/29/14 1:07	MSC	P4J0497
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	*8260B	10/29/14 1:07	MSC	P4J0497
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	*8260B	10/29/14 1:07	MSC	P4J0497
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/29/14 1:07	MSC	P4J0497
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	*8260B	10/29/14 1:07	MSC	P4J0497
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	*8260B	10/29/14 1:07	MSC	P4J0497
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.057	1	*8260B	10/29/14 1:07	MSC	P4J0497
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.074	1	*8260B	10/29/14 1:07	MSC	P4J0497
1,3-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	10/29/14 1:07	MSC	P4J0497
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	*8260B	10/29/14 1:07	MSC	P4J0497
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	10/29/14 1:07	MSC	P4J0497
2-Chloroethyl Vinyl Ether	BRL	ug/L	5.0	0.22	1	*8260B	10/29/14 1:07	MSC	P4J0497
2-Chlorotoluene	BRL	ug/L	0.50	0.038	1	*8260B	10/29/14 1:07	MSC	P4J0497
4-Chlorotoluene	BRL	ug/L	0.50	0.053	1	*8260B	10/29/14 1:07	MSC	P4J0497
4-Isopropyltoluene	BRL	ug/L	0.50	0.065	1	*8260B	10/29/14 1:07	MSC	P4J0497
Acetone	BRL	ug/L	5.0	0.62	1	*8260B	10/29/14 1:07	MSC	P4J0497
Acrolein	BRL	ug/L	20	1.1	1	*8260B	10/29/14 1:07	MSC	P4J0497
Acrylonitrile	BRL	ug/L	20	0.86	1	*8260B	10/29/14 1:07	MSC	P4J0497
Benzene	BRL	ug/L	0.50	0.072	1	*8260B	10/29/14 1:07	MSC	P4J0497
Bromobenzene	BRL	ug/L	0.50	0.064	1	*8260B	10/29/14 1:07	MSC	P4J0497
Bromochloromethane	BRL	ug/L	0.50	0.13	1	*8260B	10/29/14 1:07	MSC	P4J0497
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/29/14 1:07	MSC	P4J0497
Bromoform	BRL	ug/L	1.0	0.27	1	*8260B	10/29/14 1:07	MSC	P4J0497
Bromomethane	BRL	ug/L	1.0	0.47	1	*8260B	10/29/14 1:07	MSC	P4J0497
Carbon disulfide	BRL	ug/L	5.0	1.4	1	*8260B	10/29/14 1:07	MSC	P4J0497
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	*8260B	10/29/14 1:07	MSC	P4J0497
Chlorobenzene	BRL	ug/L	0.50	0.061	1	*8260B	10/29/14 1:07	MSC	P4J0497
Chloroethane	BRL	ug/L	0.50	0.13	1	*8260B	10/29/14 1:07	MSC	P4J0497

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Hart & Hickman (Raleigh)
Attn: Laura Robertson
3334 Hillsborough St.
Raleigh, NC 27607

Project: Trion, Inc.

Project No.: JCI-001
Sample Matrix: Water

Client Sample ID: MW-7
Prism Sample ID: 4100463-06
Prism Work Order: 4100463
Time Collected: 10/23/14 15:10
Time Submitted: 10/24/14 08:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloroform	BRL	ug/L	0.50	0.089	1	*8260B	10/29/14 1:07	MSC	P4J0497
Chloromethane	BRL	ug/L	0.50	0.11	1	*8260B	10/29/14 1:07	MSC	P4J0497
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	*8260B	10/29/14 1:07	MSC	P4J0497
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	*8260B	10/29/14 1:07	MSC	P4J0497
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	*8260B	10/29/14 1:07	MSC	P4J0497
Dibromomethane	BRL	ug/L	0.50	0.13	1	*8260B	10/29/14 1:07	MSC	P4J0497
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	10/29/14 1:07	MSC	P4J0497
Ethylbenzene	BRL	ug/L	0.50	0.067	1	*8260B	10/29/14 1:07	MSC	P4J0497
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	*8260B	10/29/14 1:07	MSC	P4J0497
Isopropyl Ether	BRL	ug/L	0.50	0.043	1	*8260B	10/29/14 1:07	MSC	P4J0497
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.072	1	*8260B	10/29/14 1:07	MSC	P4J0497
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	*8260B	10/29/14 1:07	MSC	P4J0497
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	*8260B	10/29/14 1:07	MSC	P4J0497
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	*8260B	10/29/14 1:07	MSC	P4J0497
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	*8260B	10/29/14 1:07	MSC	P4J0497
Methylene Chloride	BRL	ug/L	1.0	0.44	1	*8260B	10/29/14 1:07	MSC	P4J0497
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.070	1	*8260B	10/29/14 1:07	MSC	P4J0497
Naphthalene	BRL	ug/L	1.0	0.098	1	*8260B	10/29/14 1:07	MSC	P4J0497
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	*8260B	10/29/14 1:07	MSC	P4J0497
n-Propylbenzene	BRL	ug/L	0.50	0.060	1	*8260B	10/29/14 1:07	MSC	P4J0497
o-Xylene	BRL	ug/L	0.50	0.046	1	*8260B	10/29/14 1:07	MSC	P4J0497
sec-Butylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	10/29/14 1:07	MSC	P4J0497
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	10/29/14 1:07	MSC	P4J0497
tert-Butylbenzene	BRL	ug/L	0.50	0.080	1	*8260B	10/29/14 1:07	MSC	P4J0497
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	*8260B	10/29/14 1:07	MSC	P4J0497
Toluene	BRL	ug/L	0.50	0.042	1	*8260B	10/29/14 1:07	MSC	P4J0497
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	*8260B	10/29/14 1:07	MSC	P4J0497
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	*8260B	10/29/14 1:07	MSC	P4J0497
Trichloroethylene	BRL	ug/L	0.50	0.054	1	*8260B	10/29/14 1:07	MSC	P4J0497
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	*8260B	10/29/14 1:07	MSC	P4J0497
Vinyl acetate	BRL	ug/L	2.0	0.10	1	*8260B	10/29/14 1:07	MSC	P4J0497
Vinyl chloride	BRL	ug/L	0.50	0.16	1	*8260B	10/29/14 1:07	MSC	P4J0497

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*106 %*	*80-124*
Dibromofluoromethane	*103 %*	*75-129*
Toluene-d8	*102 %*	*77-123*

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Hart & Hickman (Raleigh)
Attn: Laura Robertson
3334 Hillsborough St.
Raleigh, NC 27607

Project: Trion, Inc.

Project No.: JCI-001
Sample Matrix: Water

Client Sample ID: MW-8
Prism Sample ID: 4100463-07
Prism Work Order: 4100463
Time Collected: 10/23/14 16:15
Time Submitted: 10/24/14 08:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**13**	**mg/L**	**1.0**	**0.13**	**1**	***9056A**	**10/24/14 21:12**	**CDE**	**P4J0467**
Nitrate as N	**0.22**	**mg/L**	**0.10**	**0.046**	**1**	***9056A**	**10/24/14 21:12**	**CDE**	**P4J0467**
Sulfate	**1.0**	**mg/L**	**1.0**	**0.13**	**1**	***9056A**	**10/24/14 21:12**	**CDE**	**P4J0467**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	*8260B	10/29/14 1:32	MSC	P4J0497
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	*8260B	10/29/14 1:32	MSC	P4J0497
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	*8260B	10/29/14 1:32	MSC	P4J0497
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	*8260B	10/29/14 1:32	MSC	P4J0497
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	*8260B	10/29/14 1:32	MSC	P4J0497
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	*8260B	10/29/14 1:32	MSC	P4J0497
1,1-Dichloropropylene	BRL	ug/L	0.50	0.061	1	*8260B	10/29/14 1:32	MSC	P4J0497
1,2,3-Trichlorobenzene	BRL CCV	ug/L	2.0	0.20	1	*8260B	10/29/14 1:32	MSC	P4J0497
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	*8260B	10/29/14 1:32	MSC	P4J0497
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	*8260B	10/29/14 1:32	MSC	P4J0497
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.048	1	*8260B	10/29/14 1:32	MSC	P4J0497
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	*8260B	10/29/14 1:32	MSC	P4J0497
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	*8260B	10/29/14 1:32	MSC	P4J0497
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/29/14 1:32	MSC	P4J0497
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	*8260B	10/29/14 1:32	MSC	P4J0497
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	*8260B	10/29/14 1:32	MSC	P4J0497
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.057	1	*8260B	10/29/14 1:32	MSC	P4J0497
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.074	1	*8260B	10/29/14 1:32	MSC	P4J0497
1,3-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	10/29/14 1:32	MSC	P4J0497
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	*8260B	10/29/14 1:32	MSC	P4J0497
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	10/29/14 1:32	MSC	P4J0497
2-Chloroethyl Vinyl Ether	BRL	ug/L	5.0	0.22	1	*8260B	10/29/14 1:32	MSC	P4J0497
2-Chlorotoluene	BRL	ug/L	0.50	0.038	1	*8260B	10/29/14 1:32	MSC	P4J0497
4-Chlorotoluene	BRL	ug/L	0.50	0.053	1	*8260B	10/29/14 1:32	MSC	P4J0497
4-Isopropyltoluene	BRL	ug/L	0.50	0.065	1	*8260B	10/29/14 1:32	MSC	P4J0497
Acetone	BRL	ug/L	5.0	0.62	1	*8260B	10/29/14 1:32	MSC	P4J0497
Acrolein	BRL	ug/L	20	1.1	1	*8260B	10/29/14 1:32	MSC	P4J0497
Acrylonitrile	BRL	ug/L	20	0.86	1	*8260B	10/29/14 1:32	MSC	P4J0497
Benzene	BRL	ug/L	0.50	0.072	1	*8260B	10/29/14 1:32	MSC	P4J0497
Bromobenzene	BRL	ug/L	0.50	0.064	1	*8260B	10/29/14 1:32	MSC	P4J0497
Bromochloromethane	BRL	ug/L	0.50	0.13	1	*8260B	10/29/14 1:32	MSC	P4J0497
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/29/14 1:32	MSC	P4J0497
Bromoform	BRL	ug/L	1.0	0.27	1	*8260B	10/29/14 1:32	MSC	P4J0497
Bromomethane	BRL	ug/L	1.0	0.47	1	*8260B	10/29/14 1:32	MSC	P4J0497
Carbon disulfide	BRL	ug/L	5.0	1.4	1	*8260B	10/29/14 1:32	MSC	P4J0497
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	*8260B	10/29/14 1:32	MSC	P4J0497
Chlorobenzene	BRL	ug/L	0.50	0.061	1	*8260B	10/29/14 1:32	MSC	P4J0497
Chloroethane	BRL	ug/L	0.50	0.13	1	*8260B	10/29/14 1:32	MSC	P4J0497

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Hart & Hickman (Raleigh)
Attn: Laura Robertson
3334 Hillsborough St.
Raleigh, NC 27607

Project: Trion, Inc.

Project No.: JCI-001
Sample Matrix: Water

Client Sample ID: MW-8
Prism Sample ID: 4100463-07
Prism Work Order: 4100463
Time Collected: 10/23/14 16:15
Time Submitted: 10/24/14 08:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloroform	BRL	ug/L	0.50	0.089	1	*8260B	10/29/14 1:32	MSC	P4J0497
Chloromethane	BRL	ug/L	0.50	0.11	1	*8260B	10/29/14 1:32	MSC	P4J0497
cis-1,2-Dichloroethylene	**130**	**ug/L**	**2.5**	**0.38**	**5**	***8260B**	**10/29/14 1:58**	**MSC**	**P4J0497**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	*8260B	10/29/14 1:32	MSC	P4J0497
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	*8260B	10/29/14 1:32	MSC	P4J0497
Dibromomethane	BRL	ug/L	0.50	0.13	1	*8260B	10/29/14 1:32	MSC	P4J0497
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	10/29/14 1:32	MSC	P4J0497
Ethylbenzene	BRL	ug/L	0.50	0.067	1	*8260B	10/29/14 1:32	MSC	P4J0497
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	*8260B	10/29/14 1:32	MSC	P4J0497
Isopropyl Ether	BRL	ug/L	0.50	0.043	1	*8260B	10/29/14 1:32	MSC	P4J0497
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.072	1	*8260B	10/29/14 1:32	MSC	P4J0497
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	*8260B	10/29/14 1:32	MSC	P4J0497
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	*8260B	10/29/14 1:32	MSC	P4J0497
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	*8260B	10/29/14 1:32	MSC	P4J0497
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	*8260B	10/29/14 1:32	MSC	P4J0497
Methylene Chloride	BRL	ug/L	1.0	0.44	1	*8260B	10/29/14 1:32	MSC	P4J0497
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.070	1	*8260B	10/29/14 1:32	MSC	P4J0497
Naphthalene	BRL	ug/L	1.0	0.098	1	*8260B	10/29/14 1:32	MSC	P4J0497
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	*8260B	10/29/14 1:32	MSC	P4J0497
n-Propylbenzene	BRL	ug/L	0.50	0.060	1	*8260B	10/29/14 1:32	MSC	P4J0497
o-Xylene	BRL	ug/L	0.50	0.046	1	*8260B	10/29/14 1:32	MSC	P4J0497
sec-Butylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	10/29/14 1:32	MSC	P4J0497
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	10/29/14 1:32	MSC	P4J0497
tert-Butylbenzene	BRL	ug/L	0.50	0.080	1	*8260B	10/29/14 1:32	MSC	P4J0497
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	*8260B	10/29/14 1:32	MSC	P4J0497
Toluene	BRL	ug/L	0.50	0.042	1	*8260B	10/29/14 1:32	MSC	P4J0497
trans-1,2-Dichloroethylene	**10**	**ug/L**	**0.50**	**0.12**	**1**	***8260B**	**10/29/14 1:32**	**MSC**	**P4J0497**
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	*8260B	10/29/14 1:32	MSC	P4J0497
Trichloroethylene	**55**	**ug/L**	**0.50**	**0.054**	**1**	***8260B**	**10/29/14 1:32**	**MSC**	**P4J0497**
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	*8260B	10/29/14 1:32	MSC	P4J0497
Vinyl acetate	BRL	ug/L	2.0	0.10	1	*8260B	10/29/14 1:32	MSC	P4J0497
Vinyl chloride	BRL	ug/L	0.50	0.16	1	*8260B	10/29/14 1:32	MSC	P4J0497

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*104 %*	*80-124*
Dibromofluoromethane	*105 %*	*75-129*
Toluene-d8	*101 %*	*77-123*

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Hart & Hickman (Raleigh)
Attn: Laura Robertson
3334 Hillsborough St.
Raleigh, NC 27607

Project: Trion, Inc.

Project No.: JCI-001
Sample Matrix: Water

Client Sample ID: TMW-4
Prism Sample ID: 4100463-08
Prism Work Order: 4100463
Time Collected: 10/23/14 15:00
Time Submitted: 10/24/14 08:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**10**	**mg/L**	**1.0**	**0.13**	**1**	***9056A**	**10/24/14 20:39**	**CDE**	**P4J0467**
Nitrate as N	**0.13**	**mg/L**	**0.10**	**0.046**	**1**	***9056A**	**10/24/14 20:39**	**CDE**	**P4J0467**
Sulfate	BRL	mg/L	1.0	0.13	1	*9056A	10/24/14 20:39	CDE	P4J0467
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	*8260B	10/29/14 2:23	MSC	P4J0497
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	*8260B	10/29/14 2:23	MSC	P4J0497
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	*8260B	10/29/14 2:23	MSC	P4J0497
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	*8260B	10/29/14 2:23	MSC	P4J0497
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	*8260B	10/29/14 2:23	MSC	P4J0497
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	*8260B	10/29/14 2:23	MSC	P4J0497
1,1-Dichloropropylene	BRL	ug/L	0.50	0.061	1	*8260B	10/29/14 2:23	MSC	P4J0497
1,2,3-Trichlorobenzene	BRL CCV	ug/L	2.0	0.20	1	*8260B	10/29/14 2:23	MSC	P4J0497
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	*8260B	10/29/14 2:23	MSC	P4J0497
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	*8260B	10/29/14 2:23	MSC	P4J0497
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.048	1	*8260B	10/29/14 2:23	MSC	P4J0497
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	*8260B	10/29/14 2:23	MSC	P4J0497
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	*8260B	10/29/14 2:23	MSC	P4J0497
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/29/14 2:23	MSC	P4J0497
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	*8260B	10/29/14 2:23	MSC	P4J0497
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	*8260B	10/29/14 2:23	MSC	P4J0497
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.057	1	*8260B	10/29/14 2:23	MSC	P4J0497
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.074	1	*8260B	10/29/14 2:23	MSC	P4J0497
1,3-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	10/29/14 2:23	MSC	P4J0497
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	*8260B	10/29/14 2:23	MSC	P4J0497
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	10/29/14 2:23	MSC	P4J0497
2-Chloroethyl Vinyl Ether	BRL	ug/L	5.0	0.22	1	*8260B	10/29/14 2:23	MSC	P4J0497
2-Chlorotoluene	BRL	ug/L	0.50	0.038	1	*8260B	10/29/14 2:23	MSC	P4J0497
4-Chlorotoluene	BRL	ug/L	0.50	0.053	1	*8260B	10/29/14 2:23	MSC	P4J0497
4-Isopropyltoluene	BRL	ug/L	0.50	0.065	1	*8260B	10/29/14 2:23	MSC	P4J0497
Acetone	BRL	ug/L	5.0	0.62	1	*8260B	10/29/14 2:23	MSC	P4J0497
Acrolein	BRL	ug/L	20	1.1	1	*8260B	10/29/14 2:23	MSC	P4J0497
Acrylonitrile	BRL	ug/L	20	0.86	1	*8260B	10/29/14 2:23	MSC	P4J0497
Benzene	BRL	ug/L	0.50	0.072	1	*8260B	10/29/14 2:23	MSC	P4J0497
Bromobenzene	BRL	ug/L	0.50	0.064	1	*8260B	10/29/14 2:23	MSC	P4J0497
Bromochloromethane	BRL	ug/L	0.50	0.13	1	*8260B	10/29/14 2:23	MSC	P4J0497
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/29/14 2:23	MSC	P4J0497
Bromoform	BRL	ug/L	1.0	0.27	1	*8260B	10/29/14 2:23	MSC	P4J0497
Bromomethane	BRL	ug/L	1.0	0.47	1	*8260B	10/29/14 2:23	MSC	P4J0497
Carbon disulfide	BRL	ug/L	5.0	1.4	1	*8260B	10/29/14 2:23	MSC	P4J0497
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	*8260B	10/29/14 2:23	MSC	P4J0497
Chlorobenzene	BRL	ug/L	0.50	0.061	1	*8260B	10/29/14 2:23	MSC	P4J0497
Chloroethane	BRL	ug/L	0.50	0.13	1	*8260B	10/29/14 2:23	MSC	P4J0497

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Hart & Hickman (Raleigh)
Attn: Laura Robertson
3334 Hillsborough St.
Raleigh, NC 27607

Project: Trion, Inc.

Project No.: JCI-001
Sample Matrix: Water

Client Sample ID: TMW-4
Prism Sample ID: 4100463-08
Prism Work Order: 4100463
Time Collected: 10/23/14 15:00
Time Submitted: 10/24/14 08:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloroform	BRL	ug/L	0.50	0.089	1	*8260B	10/29/14 2:23	MSC	P4J0497
Chloromethane	BRL	ug/L	0.50	0.11	1	*8260B	10/29/14 2:23	MSC	P4J0497
cis-1,2-Dichloroethylene	**62**	**ug/L**	**0.50**	**0.076**	**1**	***8260B**	**10/29/14 2:23**	**MSC**	**P4J0497**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	*8260B	10/29/14 2:23	MSC	P4J0497
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	*8260B	10/29/14 2:23	MSC	P4J0497
Dibromomethane	BRL	ug/L	0.50	0.13	1	*8260B	10/29/14 2:23	MSC	P4J0497
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	10/29/14 2:23	MSC	P4J0497
Ethylbenzene	BRL	ug/L	0.50	0.067	1	*8260B	10/29/14 2:23	MSC	P4J0497
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	*8260B	10/29/14 2:23	MSC	P4J0497
Isopropyl Ether	BRL	ug/L	0.50	0.043	1	*8260B	10/29/14 2:23	MSC	P4J0497
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.072	1	*8260B	10/29/14 2:23	MSC	P4J0497
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	*8260B	10/29/14 2:23	MSC	P4J0497
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	*8260B	10/29/14 2:23	MSC	P4J0497
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	*8260B	10/29/14 2:23	MSC	P4J0497
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	*8260B	10/29/14 2:23	MSC	P4J0497
Methylene Chloride	BRL	ug/L	1.0	0.44	1	*8260B	10/29/14 2:23	MSC	P4J0497
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.070	1	*8260B	10/29/14 2:23	MSC	P4J0497
Naphthalene	BRL	ug/L	1.0	0.098	1	*8260B	10/29/14 2:23	MSC	P4J0497
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	*8260B	10/29/14 2:23	MSC	P4J0497
n-Propylbenzene	BRL	ug/L	0.50	0.060	1	*8260B	10/29/14 2:23	MSC	P4J0497
o-Xylene	BRL	ug/L	0.50	0.046	1	*8260B	10/29/14 2:23	MSC	P4J0497
sec-Butylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	10/29/14 2:23	MSC	P4J0497
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	10/29/14 2:23	MSC	P4J0497
tert-Butylbenzene	BRL	ug/L	0.50	0.080	1	*8260B	10/29/14 2:23	MSC	P4J0497
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	*8260B	10/29/14 2:23	MSC	P4J0497
Toluene	BRL	ug/L	0.50	0.042	1	*8260B	10/29/14 2:23	MSC	P4J0497
trans-1,2-Dichloroethylene	**3.7**	**ug/L**	**0.50**	**0.12**	**1**	***8260B**	**10/29/14 2:23**	**MSC**	**P4J0497**
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	*8260B	10/29/14 2:23	MSC	P4J0497
Trichloroethylene	**12**	**ug/L**	**0.50**	**0.054**	**1**	***8260B**	**10/29/14 2:23**	**MSC**	**P4J0497**
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	*8260B	10/29/14 2:23	MSC	P4J0497
Vinyl acetate	BRL	ug/L	2.0	0.10	1	*8260B	10/29/14 2:23	MSC	P4J0497
Vinyl chloride	BRL	ug/L	0.50	0.16	1	*8260B	10/29/14 2:23	MSC	P4J0497

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*106 %*	*80-124*
Dibromofluoromethane	*105 %*	*75-129*
Toluene-d8	*103 %*	*77-123*

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Laboratory Report

11/10/2014

Hart & Hickman (Raleigh)
Attn: Laura Robertson
3334 Hillsborough St.
Raleigh, NC 27607

Project: Trion, Inc.

Project No.: JCI-001
Sample Matrix: Water

Client Sample ID: TMW-1
Prism Sample ID: 4100463-09
Prism Work Order: 4100463
Time Collected: 10/23/14 16:15
Time Submitted: 10/24/14 08:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**13**	**mg/L**	**1.0**	**0.13**	**1**	***9056A**	**10/24/14 21:28**	**CDE**	**P4J0467**
Nitrate as N	BRL	mg/L	0.10	0.046	1	*9056A	10/24/14 21:28	CDE	P4J0467
Sulfate	**11**	**mg/L**	**1.0**	**0.13**	**1**	***9056A**	**10/24/14 21:28**	**CDE**	**P4J0467**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	*8260B	10/29/14 2:49	MSC	P4J0497
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	*8260B	10/29/14 2:49	MSC	P4J0497
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	*8260B	10/29/14 2:49	MSC	P4J0497
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	*8260B	10/29/14 2:49	MSC	P4J0497
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	*8260B	10/29/14 2:49	MSC	P4J0497
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	*8260B	10/29/14 2:49	MSC	P4J0497
1,1-Dichloropropylene	BRL	ug/L	0.50	0.061	1	*8260B	10/29/14 2:49	MSC	P4J0497
1,2,3-Trichlorobenzene	BRL CCV	ug/L	2.0	0.20	1	*8260B	10/29/14 2:49	MSC	P4J0497
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	*8260B	10/29/14 2:49	MSC	P4J0497
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	*8260B	10/29/14 2:49	MSC	P4J0497
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.048	1	*8260B	10/29/14 2:49	MSC	P4J0497
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	*8260B	10/29/14 2:49	MSC	P4J0497
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	*8260B	10/29/14 2:49	MSC	P4J0497
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/29/14 2:49	MSC	P4J0497
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	*8260B	10/29/14 2:49	MSC	P4J0497
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	*8260B	10/29/14 2:49	MSC	P4J0497
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.057	1	*8260B	10/29/14 2:49	MSC	P4J0497
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.074	1	*8260B	10/29/14 2:49	MSC	P4J0497
1,3-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	10/29/14 2:49	MSC	P4J0497
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	*8260B	10/29/14 2:49	MSC	P4J0497
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	10/29/14 2:49	MSC	P4J0497
2-Chloroethyl Vinyl Ether	BRL	ug/L	5.0	0.22	1	*8260B	10/29/14 2:49	MSC	P4J0497
2-Chlorotoluene	BRL	ug/L	0.50	0.038	1	*8260B	10/29/14 2:49	MSC	P4J0497
4-Chlorotoluene	BRL	ug/L	0.50	0.053	1	*8260B	10/29/14 2:49	MSC	P4J0497
4-Isopropyltoluene	BRL	ug/L	0.50	0.065	1	*8260B	10/29/14 2:49	MSC	P4J0497
Acetone	BRL	ug/L	5.0	0.62	1	*8260B	10/29/14 2:49	MSC	P4J0497
Acrolein	BRL	ug/L	20	1.1	1	*8260B	10/29/14 2:49	MSC	P4J0497
Acrylonitrile	BRL	ug/L	20	0.86	1	*8260B	10/29/14 2:49	MSC	P4J0497
Benzene	BRL	ug/L	0.50	0.072	1	*8260B	10/29/14 2:49	MSC	P4J0497
Bromobenzene	BRL	ug/L	0.50	0.064	1	*8260B	10/29/14 2:49	MSC	P4J0497
Bromochloromethane	BRL	ug/L	0.50	0.13	1	*8260B	10/29/14 2:49	MSC	P4J0497
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/29/14 2:49	MSC	P4J0497
Bromoform	BRL	ug/L	1.0	0.27	1	*8260B	10/29/14 2:49	MSC	P4J0497
Bromomethane	BRL	ug/L	1.0	0.47	1	*8260B	10/29/14 2:49	MSC	P4J0497
Carbon disulfide	BRL	ug/L	5.0	1.4	1	*8260B	10/29/14 2:49	MSC	P4J0497
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	*8260B	10/29/14 2:49	MSC	P4J0497
Chlorobenzene	BRL	ug/L	0.50	0.061	1	*8260B	10/29/14 2:49	MSC	P4J0497
Chloroethane	BRL	ug/L	0.50	0.13	1	*8260B	10/29/14 2:49	MSC	P4J0497

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Hart & Hickman (Raleigh)
Attn: Laura Robertson
3334 Hillsborough St.
Raleigh, NC 27607

Project: Trion, Inc.

Project No.: JCI-001
Sample Matrix: Water

Client Sample ID: TMW-1
Prism Sample ID: 4100463-09
Prism Work Order: 4100463
Time Collected: 10/23/14 16:15
Time Submitted: 10/24/14 08:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloroform	BRL	ug/L	0.50	0.089	1	*8260B	10/29/14 2:49	MSC	P4J0497
Chloromethane	BRL	ug/L	0.50	0.11	1	*8260B	10/29/14 2:49	MSC	P4J0497
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	*8260B	10/29/14 2:49	MSC	P4J0497
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	*8260B	10/29/14 2:49	MSC	P4J0497
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	*8260B	10/29/14 2:49	MSC	P4J0497
Dibromomethane	BRL	ug/L	0.50	0.13	1	*8260B	10/29/14 2:49	MSC	P4J0497
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	10/29/14 2:49	MSC	P4J0497
Ethylbenzene	BRL	ug/L	0.50	0.067	1	*8260B	10/29/14 2:49	MSC	P4J0497
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	*8260B	10/29/14 2:49	MSC	P4J0497
Isopropyl Ether	BRL	ug/L	0.50	0.043	1	*8260B	10/29/14 2:49	MSC	P4J0497
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.072	1	*8260B	10/29/14 2:49	MSC	P4J0497
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	*8260B	10/29/14 2:49	MSC	P4J0497
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	*8260B	10/29/14 2:49	MSC	P4J0497
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	*8260B	10/29/14 2:49	MSC	P4J0497
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	*8260B	10/29/14 2:49	MSC	P4J0497
Methylene Chloride	BRL	ug/L	1.0	0.44	1	*8260B	10/29/14 2:49	MSC	P4J0497
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.070	1	*8260B	10/29/14 2:49	MSC	P4J0497
Naphthalene	BRL	ug/L	1.0	0.098	1	*8260B	10/29/14 2:49	MSC	P4J0497
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	*8260B	10/29/14 2:49	MSC	P4J0497
n-Propylbenzene	BRL	ug/L	0.50	0.060	1	*8260B	10/29/14 2:49	MSC	P4J0497
o-Xylene	BRL	ug/L	0.50	0.046	1	*8260B	10/29/14 2:49	MSC	P4J0497
sec-Butylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	10/29/14 2:49	MSC	P4J0497
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	10/29/14 2:49	MSC	P4J0497
tert-Butylbenzene	BRL	ug/L	0.50	0.080	1	*8260B	10/29/14 2:49	MSC	P4J0497
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	*8260B	10/29/14 2:49	MSC	P4J0497
Toluene	BRL	ug/L	0.50	0.042	1	*8260B	10/29/14 2:49	MSC	P4J0497
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	*8260B	10/29/14 2:49	MSC	P4J0497
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	*8260B	10/29/14 2:49	MSC	P4J0497
Trichloroethylene	BRL	ug/L	0.50	0.054	1	*8260B	10/29/14 2:49	MSC	P4J0497
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	*8260B	10/29/14 2:49	MSC	P4J0497
Vinyl acetate	BRL	ug/L	2.0	0.10	1	*8260B	10/29/14 2:49	MSC	P4J0497
Vinyl chloride	BRL	ug/L	0.50	0.16	1	*8260B	10/29/14 2:49	MSC	P4J0497

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*102 %*	*80-124*
Dibromofluoromethane	*103 %*	*75-129*
Toluene-d8	*102 %*	*77-123*

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Laboratory Report

11/10/2014

Hart & Hickman (Raleigh)
Attn: Laura Robertson
3334 Hillsborough St.
Raleigh, NC 27607

Project: Trion, Inc.

Project No.: JCI-001
Sample Matrix: Water

Client Sample ID: Dup-1
Prism Sample ID: 4100463-10
Prism Work Order: 4100463
Time Collected: 10/23/14 12:25
Time Submitted: 10/24/14 08:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**16**	**mg/L**	**1.0**	**0.13**	**1**	***9056A**	**10/24/14 19:50**	**CDE**	**P4J0467**
Nitrate as N	**0.47**	**mg/L**	**0.10**	**0.046**	**1**	***9056A**	**10/24/14 19:50**	**CDE**	**P4J0467**
Sulfate	**7.2**	**mg/L**	**1.0**	**0.13**	**1**	***9056A**	**10/24/14 19:50**	**CDE**	**P4J0467**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	*8260B	10/29/14 3:14	MSC	P4J0497
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	*8260B	10/29/14 3:14	MSC	P4J0497
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	*8260B	10/29/14 3:14	MSC	P4J0497
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	*8260B	10/29/14 3:14	MSC	P4J0497
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	*8260B	10/29/14 3:14	MSC	P4J0497
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	*8260B	10/29/14 3:14	MSC	P4J0497
1,1-Dichloropropylene	BRL	ug/L	0.50	0.061	1	*8260B	10/29/14 3:14	MSC	P4J0497
1,2,3-Trichlorobenzene	BRL CCV	ug/L	2.0	0.20	1	*8260B	10/29/14 3:14	MSC	P4J0497
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	*8260B	10/29/14 3:14	MSC	P4J0497
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	*8260B	10/29/14 3:14	MSC	P4J0497
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.048	1	*8260B	10/29/14 3:14	MSC	P4J0497
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	*8260B	10/29/14 3:14	MSC	P4J0497
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	*8260B	10/29/14 3:14	MSC	P4J0497
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/29/14 3:14	MSC	P4J0497
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	*8260B	10/29/14 3:14	MSC	P4J0497
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	*8260B	10/29/14 3:14	MSC	P4J0497
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.057	1	*8260B	10/29/14 3:14	MSC	P4J0497
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.074	1	*8260B	10/29/14 3:14	MSC	P4J0497
1,3-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	10/29/14 3:14	MSC	P4J0497
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	*8260B	10/29/14 3:14	MSC	P4J0497
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	10/29/14 3:14	MSC	P4J0497
2-Chloroethyl Vinyl Ether	BRL	ug/L	5.0	0.22	1	*8260B	10/29/14 3:14	MSC	P4J0497
2-Chlorotoluene	BRL	ug/L	0.50	0.038	1	*8260B	10/29/14 3:14	MSC	P4J0497
4-Chlorotoluene	BRL	ug/L	0.50	0.053	1	*8260B	10/29/14 3:14	MSC	P4J0497
4-Isopropyltoluene	BRL	ug/L	0.50	0.065	1	*8260B	10/29/14 3:14	MSC	P4J0497
Acetone	BRL	ug/L	5.0	0.62	1	*8260B	10/29/14 3:14	MSC	P4J0497
Acrolein	BRL	ug/L	20	1.1	1	*8260B	10/29/14 3:14	MSC	P4J0497
Acrylonitrile	BRL	ug/L	20	0.86	1	*8260B	10/29/14 3:14	MSC	P4J0497
Benzene	BRL	ug/L	0.50	0.072	1	*8260B	10/29/14 3:14	MSC	P4J0497
Bromobenzene	BRL	ug/L	0.50	0.064	1	*8260B	10/29/14 3:14	MSC	P4J0497
Bromochloromethane	BRL	ug/L	0.50	0.13	1	*8260B	10/29/14 3:14	MSC	P4J0497
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/29/14 3:14	MSC	P4J0497
Bromoform	BRL	ug/L	1.0	0.27	1	*8260B	10/29/14 3:14	MSC	P4J0497
Bromomethane	BRL	ug/L	1.0	0.47	1	*8260B	10/29/14 3:14	MSC	P4J0497
Carbon disulfide	BRL	ug/L	5.0	1.4	1	*8260B	10/29/14 3:14	MSC	P4J0497
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	*8260B	10/29/14 3:14	MSC	P4J0497
Chlorobenzene	BRL	ug/L	0.50	0.061	1	*8260B	10/29/14 3:14	MSC	P4J0497
Chloroethane	BRL	ug/L	0.50	0.13	1	*8260B	10/29/14 3:14	MSC	P4J0497

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Hart & Hickman (Raleigh)
Attn: Laura Robertson
3334 Hillsborough St.
Raleigh, NC 27607

Project: Trion, Inc.

Project No.: JCI-001
Sample Matrix: Water

Client Sample ID: Dup-1
Prism Sample ID: 4100463-10
Prism Work Order: 4100463
Time Collected: 10/23/14 12:25
Time Submitted: 10/24/14 08:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Chloroform	**0.62**	**ug/L**	**0.50**	**0.089**	**1**	***8260B**	**10/29/14 3:14**	**MSC**	**P4J0497**
Chloromethane	BRL	ug/L	0.50	0.11	1	*8260B	10/29/14 3:14	MSC	P4J0497
cis-1,2-Dichloroethylene	**46**	**ug/L**	**0.50**	**0.076**	**1**	***8260B**	**10/29/14 3:14**	**MSC**	**P4J0497**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	*8260B	10/29/14 3:14	MSC	P4J0497
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	*8260B	10/29/14 3:14	MSC	P4J0497
Dibromomethane	BRL	ug/L	0.50	0.13	1	*8260B	10/29/14 3:14	MSC	P4J0497
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	10/29/14 3:14	MSC	P4J0497
Ethylbenzene	BRL	ug/L	0.50	0.067	1	*8260B	10/29/14 3:14	MSC	P4J0497
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	*8260B	10/29/14 3:14	MSC	P4J0497
Isopropyl Ether	BRL	ug/L	0.50	0.043	1	*8260B	10/29/14 3:14	MSC	P4J0497
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.072	1	*8260B	10/29/14 3:14	MSC	P4J0497
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	*8260B	10/29/14 3:14	MSC	P4J0497
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	*8260B	10/29/14 3:14	MSC	P4J0497
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	*8260B	10/29/14 3:14	MSC	P4J0497
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	*8260B	10/29/14 3:14	MSC	P4J0497
Methylene Chloride	BRL	ug/L	1.0	0.44	1	*8260B	10/29/14 3:14	MSC	P4J0497
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.070	1	*8260B	10/29/14 3:14	MSC	P4J0497
Naphthalene	BRL	ug/L	1.0	0.098	1	*8260B	10/29/14 3:14	MSC	P4J0497
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	*8260B	10/29/14 3:14	MSC	P4J0497
n-Propylbenzene	BRL	ug/L	0.50	0.060	1	*8260B	10/29/14 3:14	MSC	P4J0497
o-Xylene	BRL	ug/L	0.50	0.046	1	*8260B	10/29/14 3:14	MSC	P4J0497
sec-Butylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	10/29/14 3:14	MSC	P4J0497
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	10/29/14 3:14	MSC	P4J0497
tert-Butylbenzene	BRL	ug/L	0.50	0.080	1	*8260B	10/29/14 3:14	MSC	P4J0497
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	*8260B	10/29/14 3:14	MSC	P4J0497
Toluene	BRL	ug/L	0.50	0.042	1	*8260B	10/29/14 3:14	MSC	P4J0497
trans-1,2-Dichloroethylene	**1.9**	**ug/L**	**0.50**	**0.12**	**1**	***8260B**	**10/29/14 3:14**	**MSC**	**P4J0497**
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	*8260B	10/29/14 3:14	MSC	P4J0497
Trichloroethylene	**24**	**ug/L**	**0.50**	**0.054**	**1**	***8260B**	**10/29/14 3:14**	**MSC**	**P4J0497**
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	*8260B	10/29/14 3:14	MSC	P4J0497
Vinyl acetate	BRL	ug/L	2.0	0.10	1	*8260B	10/29/14 3:14	MSC	P4J0497
Vinyl chloride	BRL	ug/L	0.50	0.16	1	*8260B	10/29/14 3:14	MSC	P4J0497

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*105 %*	*80-124*
Dibromofluoromethane	*106 %*	*75-129*
Toluene-d8	*102 %*	*77-123*

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
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Hart & Hickman (Raleigh)
Attn: Laura Robertson
3334 Hillsborough St.
Raleigh, NC 27607

Project: Trion, Inc.

Project No.: JCI-001
Sample Matrix: Water

Client Sample ID: Trip Blank
Prism Sample ID: 4100463-11
Prism Work Order: 4100463
Time Collected: 10/23/14 00:00
Time Submitted: 10/24/14 08:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.15	1	*8260B	10/28/14 19:13	MSC	P4J0497
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.063	1	*8260B	10/28/14 19:13	MSC	P4J0497
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.071	1	*8260B	10/28/14 19:13	MSC	P4J0497
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.17	1	*8260B	10/28/14 19:13	MSC	P4J0497
1,1-Dichloroethane	BRL	ug/L	0.50	0.096	1	*8260B	10/28/14 19:13	MSC	P4J0497
1,1-Dichloroethylene	BRL	ug/L	0.50	0.078	1	*8260B	10/28/14 19:13	MSC	P4J0497
1,1-Dichloropropylene	BRL	ug/L	0.50	0.061	1	*8260B	10/28/14 19:13	MSC	P4J0497
1,2,3-Trichlorobenzene	BRL CCV	ug/L	2.0	0.20	1	*8260B	10/28/14 19:13	MSC	P4J0497
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.081	1	*8260B	10/28/14 19:13	MSC	P4J0497
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.10	1	*8260B	10/28/14 19:13	MSC	P4J0497
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.048	1	*8260B	10/28/14 19:13	MSC	P4J0497
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.59	1	*8260B	10/28/14 19:13	MSC	P4J0497
1,2-Dibromoethane	BRL	ug/L	0.50	0.14	1	*8260B	10/28/14 19:13	MSC	P4J0497
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	*8260B	10/28/14 19:13	MSC	P4J0497
1,2-Dichloroethane	BRL	ug/L	0.50	0.14	1	*8260B	10/28/14 19:13	MSC	P4J0497
1,2-Dichloropropane	BRL	ug/L	0.50	0.13	1	*8260B	10/28/14 19:13	MSC	P4J0497
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.057	1	*8260B	10/28/14 19:13	MSC	P4J0497
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.074	1	*8260B	10/28/14 19:13	MSC	P4J0497
1,3-Dichloropropane	BRL	ug/L	0.50	0.11	1	*8260B	10/28/14 19:13	MSC	P4J0497
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.068	1	*8260B	10/28/14 19:13	MSC	P4J0497
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	*8260B	10/28/14 19:13	MSC	P4J0497
2-Chloroethyl Vinyl Ether	BRL	ug/L	5.0	0.22	1	*8260B	10/28/14 19:13	MSC	P4J0497
2-Chlorotoluene	BRL	ug/L	0.50	0.038	1	*8260B	10/28/14 19:13	MSC	P4J0497
4-Chlorotoluene	BRL	ug/L	0.50	0.053	1	*8260B	10/28/14 19:13	MSC	P4J0497
4-Isopropyltoluene	BRL	ug/L	0.50	0.065	1	*8260B	10/28/14 19:13	MSC	P4J0497
Acetone	BRL	ug/L	5.0	0.62	1	*8260B	10/28/14 19:13	MSC	P4J0497
Acrolein	BRL	ug/L	20	1.1	1	*8260B	10/28/14 19:13	MSC	P4J0497
Acrylonitrile	BRL	ug/L	20	0.86	1	*8260B	10/28/14 19:13	MSC	P4J0497
Benzene	BRL	ug/L	0.50	0.072	1	*8260B	10/28/14 19:13	MSC	P4J0497
Bromobenzene	BRL	ug/L	0.50	0.064	1	*8260B	10/28/14 19:13	MSC	P4J0497
Bromochloromethane	BRL	ug/L	0.50	0.13	1	*8260B	10/28/14 19:13	MSC	P4J0497
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	*8260B	10/28/14 19:13	MSC	P4J0497
Bromoform	BRL	ug/L	1.0	0.27	1	*8260B	10/28/14 19:13	MSC	P4J0497
Bromomethane	BRL	ug/L	1.0	0.47	1	*8260B	10/28/14 19:13	MSC	P4J0497
Carbon disulfide	BRL	ug/L	5.0	1.4	1	*8260B	10/28/14 19:13	MSC	P4J0497
Carbon Tetrachloride	BRL	ug/L	0.50	0.12	1	*8260B	10/28/14 19:13	MSC	P4J0497
Chlorobenzene	BRL	ug/L	0.50	0.061	1	*8260B	10/28/14 19:13	MSC	P4J0497
Chloroethane	BRL	ug/L	0.50	0.13	1	*8260B	10/28/14 19:13	MSC	P4J0497
Chloroform	BRL	ug/L	0.50	0.089	1	*8260B	10/28/14 19:13	MSC	P4J0497
Chloromethane	BRL	ug/L	0.50	0.11	1	*8260B	10/28/14 19:13	MSC	P4J0497
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.076	1	*8260B	10/28/14 19:13	MSC	P4J0497
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.10	1	*8260B	10/28/14 19:13	MSC	P4J0497

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Hart & Hickman (Raleigh)
Attn: Laura Robertson
3334 Hillsborough St.
Raleigh, NC 27607

Project: Trion, Inc.

Project No.: JCI-001
Sample Matrix: Water

Client Sample ID: Trip Blank
Prism Sample ID: 4100463-11
Prism Work Order: 4100463
Time Collected: 10/23/14 00:00
Time Submitted: 10/24/14 08:45

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dibromochloromethane	BRL	ug/L	0.50	0.30	1	*8260B	10/28/14 19:13	MSC	P4J0497
Dibromomethane	BRL	ug/L	0.50	0.13	1	*8260B	10/28/14 19:13	MSC	P4J0497
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	*8260B	10/28/14 19:13	MSC	P4J0497
Ethylbenzene	BRL	ug/L	0.50	0.067	1	*8260B	10/28/14 19:13	MSC	P4J0497
Hexachlorobutadiene	BRL	ug/L	2.0	0.36	1	*8260B	10/28/14 19:13	MSC	P4J0497
Isopropyl Ether	BRL	ug/L	0.50	0.043	1	*8260B	10/28/14 19:13	MSC	P4J0497
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.072	1	*8260B	10/28/14 19:13	MSC	P4J0497
m,p-Xylenes	BRL	ug/L	1.0	0.081	1	*8260B	10/28/14 19:13	MSC	P4J0497
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.19	1	*8260B	10/28/14 19:13	MSC	P4J0497
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.90	1	*8260B	10/28/14 19:13	MSC	P4J0497
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.12	1	*8260B	10/28/14 19:13	MSC	P4J0497
Methylene Chloride	BRL	ug/L	1.0	0.44	1	*8260B	10/28/14 19:13	MSC	P4J0497
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.070	1	*8260B	10/28/14 19:13	MSC	P4J0497
Naphthalene	BRL	ug/L	1.0	0.098	1	*8260B	10/28/14 19:13	MSC	P4J0497
n-Butylbenzene	BRL	ug/L	1.0	0.11	1	*8260B	10/28/14 19:13	MSC	P4J0497
n-Propylbenzene	BRL	ug/L	0.50	0.060	1	*8260B	10/28/14 19:13	MSC	P4J0497
o-Xylene	BRL	ug/L	0.50	0.046	1	*8260B	10/28/14 19:13	MSC	P4J0497
sec-Butylbenzene	BRL	ug/L	0.50	0.087	1	*8260B	10/28/14 19:13	MSC	P4J0497
Styrene	BRL	ug/L	0.50	0.047	1	*8260B	10/28/14 19:13	MSC	P4J0497
tert-Butylbenzene	BRL	ug/L	0.50	0.080	1	*8260B	10/28/14 19:13	MSC	P4J0497
Tetrachloroethylene	BRL	ug/L	0.50	0.069	1	*8260B	10/28/14 19:13	MSC	P4J0497
Toluene	BRL	ug/L	0.50	0.042	1	*8260B	10/28/14 19:13	MSC	P4J0497
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.12	1	*8260B	10/28/14 19:13	MSC	P4J0497
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.043	1	*8260B	10/28/14 19:13	MSC	P4J0497
Trichloroethylene	BRL	ug/L	0.50	0.054	1	*8260B	10/28/14 19:13	MSC	P4J0497
Trichlorofluoromethane	BRL	ug/L	0.50	0.088	1	*8260B	10/28/14 19:13	MSC	P4J0497
Vinyl acetate	BRL	ug/L	2.0	0.10	1	*8260B	10/28/14 19:13	MSC	P4J0497
Vinyl chloride	BRL	ug/L	0.50	0.16	1	*8260B	10/28/14 19:13	MSC	P4J0497

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*104 %*	*80-124*
Dibromofluoromethane	*103 %*	*75-129*
Toluene-d8	*102 %*	*77-123*

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Hart & Hickman (Raleigh)
Attn: Laura Robertson
3334 Hillsborough St.
Raleigh, NC 27607

Project: Trion, Inc.

Project No: JCI-001

Prism Work Order: 4100463
Time Submitted: 10/24/2014 8:45:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4J0497 - 5030B										
Blank (P4J0497-BLK1)				Prepared & Analyzed: 10/28/14						
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,1-Dichloropropylene	BRL	0.50	ug/L							
1,2,3-Trichlorobenzene	BRL	2.0	ug/L							
1,2,3-Trichloropropane	BRL	1.0	ug/L							
1,2,4-Trichlorobenzene	BRL	1.0	ug/L							
1,2,4-Trimethylbenzene	BRL	0.50	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,3,5-Trimethylbenzene	BRL	0.50	ug/L							
1,3-Dichlorobenzene	BRL	0.50	ug/L							
1,3-Dichloropropane	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
2,2-Dichloropropane	BRL	2.0	ug/L							
2-Chloroethyl Vinyl Ether	BRL	5.0	ug/L							
2-Chlorotoluene	BRL	0.50	ug/L							
4-Chlorotoluene	BRL	0.50	ug/L							
4-Isopropyltoluene	BRL	0.50	ug/L							
Acetone	BRL	5.0	ug/L							
Acrolein	BRL	20	ug/L							
Acrylonitrile	BRL	20	ug/L							
Benzene	BRL	0.50	ug/L							
Bromobenzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	1.0	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon disulfide	BRL	5.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	1.0	ug/L							
Ethylbenzene	BRL	0.50	ug/L							

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Raleigh, NC 27607

Project: Trion, Inc.

Project No: JCI-001

Prism Work Order: 4100463
Time Submitted: 10/24/2014 8:45:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4J0497 - 5030B										
Blank (P4J0497-BLK1)				Prepared & Analyzed: 10/28/14						
Hexachlorobutadiene	BRL	2.0	ug/L							
Isopropyl Ether	BRL	0.50	ug/L							
Isopropylbenzene (Cumene)	BRL	0.50	ug/L							
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	5.0	ug/L							
Methylene Chloride	BRL	1.0	ug/L							
Methyl-tert-Butyl Ether	BRL	0.50	ug/L							
Naphthalene	BRL	1.0	ug/L							
n-Butylbenzene	BRL	1.0	ug/L							
n-Propylbenzene	BRL	0.50	ug/L							
o-Xylene	BRL	0.50	ug/L							
sec-Butylbenzene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
tert-Butylbenzene	BRL	0.50	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Trichlorofluoromethane	BRL	0.50	ug/L							
Vinyl acetate	BRL	2.0	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Surrogate: 4-Bromofluorobenzene	*52.0*		*ug/L*	*50.00*		*104*	*80-124*			
Surrogate: Dibromofluoromethane	*51.0*		*ug/L*	*50.00*		*102*	*75-129*			
Surrogate: Toluene-d8	*50.0*		*ug/L*	*50.00*		*100*	*77-123*			

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Hart & Hickman (Raleigh)
Attn: Laura Robertson
3334 Hillsborough St.
Raleigh, NC 27607

Project: Trion, Inc.

Project No: JCI-001

Prism Work Order: 4100463
Time Submitted: 10/24/2014 8:45:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4J0497 - 5030B										
LCS (P4J0497-BS1)				Prepared & Analyzed: 10/28/14						
1,1,1,2-Tetrachloroethane	22.7	0.50	ug/L	20.00		114	79-134			
1,1,1-Trichloroethane	22.6	0.50	ug/L	20.00		113	75-136			
1,1,2,2-Tetrachloroethane	22.2	0.50	ug/L	20.00		111	62-127			
1,1,2-Trichloroethane	21.5	0.50	ug/L	20.00		108	70-140			
1,1-Dichloroethane	22.4	0.50	ug/L	20.00		112	78-130			
1,1-Dichloroethylene	19.2	0.50	ug/L	20.00		96	70-154			
1,1-Dichloropropylene	20.7	0.50	ug/L	20.00		103	71-136			
1,2,3-Trichlorobenzene	24.8	2.0	ug/L	20.00		124	58-144			
1,2,3-Trichloropropane	21.9	1.0	ug/L	20.00		109	71-127			
1,2,4-Trichlorobenzene	23.8	1.0	ug/L	20.00		119	66-139			
1,2,4-Trimethylbenzene	22.2	0.50	ug/L	20.00		111	75-133			
1,2-Dibromo-3-chloropropane	24.0	2.0	ug/L	20.00		120	63-134			
1,2-Dibromoethane	23.0	0.50	ug/L	20.00		115	77-135			
1,2-Dichlorobenzene	22.0	0.50	ug/L	20.00		110	78-128			
1,2-Dichloroethane	20.1	0.50	ug/L	20.00		101	68-131			
1,2-Dichloropropane	21.3	0.50	ug/L	20.00		106	77-130			
1,3,5-Trimethylbenzene	21.3	0.50	ug/L	20.00		107	75-131			
1,3-Dichlorobenzene	22.2	0.50	ug/L	20.00		111	77-125			
1,3-Dichloropropane	22.0	0.50	ug/L	20.00		110	76-132			
1,4-Dichlorobenzene	21.7	0.50	ug/L	20.00		108	75-126			
2,2-Dichloropropane	22.6	2.0	ug/L	20.00		113	29-149			
2-Chloroethyl Vinyl Ether	21.5	5.0	ug/L	20.00		107	34-144			
2-Chlorotoluene	21.1	0.50	ug/L	20.00		106	74-126			
4-Chlorotoluene	21.2	0.50	ug/L	20.00		106	78-129			
4-Isopropyltoluene	21.2	0.50	ug/L	20.00		106	69-132			
Acetone	30.6	5.0	ug/L	40.00		77	40-166			
Acrolein	50.7	20	ug/L	40.00		127	70-130			
Acrylonitrile	46.6	20	ug/L	40.00		117	81-127			
Benzene	21.9	0.50	ug/L	20.00		110	77-128			
Bromobenzene	21.1	0.50	ug/L	20.00		106	78-129			
Bromochloromethane	22.4	0.50	ug/L	20.00		112	78-135			
Bromodichloromethane	22.3	0.50	ug/L	20.00		112	76-138			
Bromoform	20.3	1.0	ug/L	20.00		101	71-135			
Bromomethane	21.2	1.0	ug/L	20.00		106	41-168			
Carbon disulfide	21.4	5.0	ug/L	20.00		107	59-135			
Carbon Tetrachloride	22.5	0.50	ug/L	20.00		113	72-142			
Chlorobenzene	22.3	0.50	ug/L	20.00		111	78-119			
Chloroethane	20.8	0.50	ug/L	20.00		104	57-142			
Chloroform	22.6	0.50	ug/L	20.00		113	77-130			
Chloromethane	22.6	0.50	ug/L	20.00		113	47-145			
cis-1,2-Dichloroethylene	21.9	0.50	ug/L	20.00		109	76-141			
cis-1,3-Dichloropropylene	21.0	0.50	ug/L	20.00		105	65-140			
Dibromochloromethane	24.3	0.50	ug/L	20.00		121	75-134			
Dibromomethane	23.0	0.50	ug/L	20.00		115	76-138			
Dichlorodifluoromethane	23.3	1.0	ug/L	20.00		116	28-163			
Ethylbenzene	21.5	0.50	ug/L	20.00		108	80-127			

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Hart & Hickman (Raleigh)
Attn: Laura Robertson
3334 Hillsborough St.
Raleigh, NC 27607

Project: Trion, Inc.

Project No: JCI-001

Prism Work Order: 4100463
Time Submitted: 10/24/2014 8:45:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4J0497 - 5030B										
LCS (P4J0497-BS1)				Prepared & Analyzed: 10/28/14						
Hexachlorobutadiene	23.4	2.0	ug/L	20.00		117	61-134			
Isopropyl Ether	21.3	0.50	ug/L	20.00		107	60-154			
Isopropylbenzene (Cumene)	21.7	0.50	ug/L	20.00		109	70-130			
m,p-Xylenes	44.7	1.0	ug/L	40.00		112	77-133			
Methyl Butyl Ketone (2-Hexanone)	21.0	5.0	ug/L	20.00		105	64-137			
Methyl Ethyl Ketone (2-Butanone)	23.0	5.0	ug/L	20.00		115	71-134			
Methyl Isobutyl Ketone	20.6	5.0	ug/L	20.00		103	69-134			
Methylene Chloride	20.2	1.0	ug/L	20.00		101	73-131			
Methyl-tert-Butyl Ether	22.7	0.50	ug/L	20.00		113	68-135			
Naphthalene	23.5	1.0	ug/L	20.00		117	64-136			
n-Butylbenzene	21.8	1.0	ug/L	20.00		109	68-134			
n-Propylbenzene	21.6	0.50	ug/L	20.00		108	72-132			
o-Xylene	20.3	0.50	ug/L	20.00		101	78-128			
sec-Butylbenzene	21.8	0.50	ug/L	20.00		109	71-131			
Styrene	19.1	0.50	ug/L	20.00		96	78-129			
tert-Butylbenzene	21.2	0.50	ug/L	20.00		106	70-132			
Tetrachloroethylene	22.5	0.50	ug/L	20.00		112	80-129			
Toluene	21.3	0.50	ug/L	20.00		107	76-131			
trans-1,2-Dichloroethylene	22.0	0.50	ug/L	20.00		110	76-135			
trans-1,3-Dichloropropylene	21.6	0.50	ug/L	20.00		108	67-140			
Trichloroethylene	20.0	0.50	ug/L	20.00		100	77-133			
Trichlorofluoromethane	18.0	0.50	ug/L	20.00		90	62-148			
Vinyl acetate	19.9	2.0	ug/L	20.00		99	34-167			
Vinyl chloride	22.9	0.50	ug/L	20.00		115	57-141			
Surrogate: 4-Bromofluorobenzene	*49.1*		*ug/L*	*50.00*		*98*	*80-124*			
Surrogate: Dibromofluoromethane	*52.1*		*ug/L*	*50.00*		*104*	*75-129*			
Surrogate: Toluene-d8	*49.9*		*ug/L*	*50.00*		*100*	*77-123*			

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Hart & Hickman (Raleigh)
Attn: Laura Robertson
3334 Hillsborough St.
Raleigh, NC 27607

Project: Trion, Inc.

Project No: JCI-001

Prism Work Order: 4100463
Time Submitted: 10/24/2014 8:45:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4J0497 - 5030B										
LCS Dup (P4J0497-BSD1)				Prepared & Analyzed: 10/28/14						
1,1,1,2-Tetrachloroethane	21.6	0.50	ug/L	20.00		108	79-134	5	20	
1,1,1-Trichloroethane	21.4	0.50	ug/L	20.00		107	75-136	5	20	
1,1,2,2-Tetrachloroethane	21.8	0.50	ug/L	20.00		109	62-127	2	20	
1,1,2-Trichloroethane	20.8	0.50	ug/L	20.00		104	70-140	3	20	
1,1-Dichloroethane	21.2	0.50	ug/L	20.00		106	78-130	5	20	
1,1-Dichloroethylene	18.0	0.50	ug/L	20.00		90	70-154	6	20	
1,1-Dichloropropylene	19.3	0.50	ug/L	20.00		97	71-136	7	20	
1,2,3-Trichlorobenzene	25.0	2.0	ug/L	20.00		125	58-144	0.9	20	
1,2,3-Trichloropropane	21.2	1.0	ug/L	20.00		106	71-127	3	20	
1,2,4-Trichlorobenzene	23.3	1.0	ug/L	20.00		116	66-139	2	20	
1,2,4-Trimethylbenzene	21.2	0.50	ug/L	20.00		106	75-133	5	20	
1,2-Dibromo-3-chloropropane	22.3	2.0	ug/L	20.00		111	63-134	7	20	
1,2-Dibromoethane	22.4	0.50	ug/L	20.00		112	77-135	3	20	
1,2-Dichlorobenzene	21.4	0.50	ug/L	20.00		107	78-128	3	20	
1,2-Dichloroethane	19.3	0.50	ug/L	20.00		96	68-131	4	20	
1,2-Dichloropropane	20.2	0.50	ug/L	20.00		101	77-130	5	20	
1,3,5-Trimethylbenzene	20.6	0.50	ug/L	20.00		103	75-131	4	20	
1,3-Dichlorobenzene	21.7	0.50	ug/L	20.00		108	77-125	2	20	
1,3-Dichloropropane	21.3	0.50	ug/L	20.00		107	76-132	3	20	
1,4-Dichlorobenzene	21.1	0.50	ug/L	20.00		105	75-126	3	20	
2,2-Dichloropropane	21.1	2.0	ug/L	20.00		106	29-149	7	20	
2-Chloroethyl Vinyl Ether	21.0	5.0	ug/L	20.00		105	34-144	2	20	
2-Chlorotoluene	20.6	0.50	ug/L	20.00		103	74-126	3	20	
4-Chlorotoluene	20.4	0.50	ug/L	20.00		102	78-129	4	20	
4-Isopropyltoluene	20.2	0.50	ug/L	20.00		101	69-132	5	20	
Acetone	30.0	5.0	ug/L	40.00		75	40-166	2	20	
Acrolein	49.4	20	ug/L	40.00		124	70-130	3	20	
Acrylonitrile	44.7	20	ug/L	40.00		112	81-127	4	20	
Benzene	20.7	0.50	ug/L	20.00		103	77-128	6	20	
Bromobenzene	20.4	0.50	ug/L	20.00		102	78-129	4	20	
Bromochloromethane	21.9	0.50	ug/L	20.00		109	78-135	2	20	
Bromodichloromethane	21.3	0.50	ug/L	20.00		106	76-138	5	20	
Bromoform	19.9	1.0	ug/L	20.00		99	71-135	2	20	
Bromomethane	21.0	1.0	ug/L	20.00		105	41-168	0.9	20	
Carbon disulfide	20.1	5.0	ug/L	20.00		100	59-135	7	20	
Carbon Tetrachloride	21.7	0.50	ug/L	20.00		109	72-142	4	20	
Chlorobenzene	21.4	0.50	ug/L	20.00		107	78-119	4	20	
Chloroethane	20.2	0.50	ug/L	20.00		101	57-142	3	20	
Chloroform	22.2	0.50	ug/L	20.00		111	77-130	2	20	
Chloromethane	21.3	0.50	ug/L	20.00		107	47-145	6	20	
cis-1,2-Dichloroethylene	21.2	0.50	ug/L	20.00		106	76-141	3	20	
cis-1,3-Dichloropropylene	20.1	0.50	ug/L	20.00		101	65-140	4	20	
Dibromochloromethane	23.9	0.50	ug/L	20.00		120	75-134	2	20	
Dibromomethane	22.4	0.50	ug/L	20.00		112	76-138	3	20	
Dichlorodifluoromethane	21.6	1.0	ug/L	20.00		108	28-163	7	20	
Ethylbenzene	20.4	0.50	ug/L	20.00		102	80-127	6	20	

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Hart & Hickman (Raleigh)
Attn: Laura Robertson
3334 Hillsborough St.
Raleigh, NC 27607

Project: Trion, Inc.

Project No: JCI-001

Prism Work Order: 4100463
Time Submitted: 10/24/2014 8:45:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4J0497 - 5030B										
LCS Dup (P4J0497-BSD1)				Prepared & Analyzed: 10/28/14						
Hexachlorobutadiene	23.4	2.0	ug/L	20.00		117	61-134	0.3	20	
Isopropyl Ether	20.1	0.50	ug/L	20.00		101	60-154	6	20	
Isopropylbenzene (Cumene)	20.8	0.50	ug/L	20.00		104	70-130	5	20	
m,p-Xylenes	42.4	1.0	ug/L	40.00		106	77-133	5	20	
Methyl Butyl Ketone (2-Hexanone)	20.0	5.0	ug/L	20.00		100	64-137	4	20	
Methyl Ethyl Ketone (2-Butanone)	22.2	5.0	ug/L	20.00		111	71-134	3	20	
Methyl Isobutyl Ketone	19.6	5.0	ug/L	20.00		98	69-134	5	20	
Methylene Chloride	19.3	1.0	ug/L	20.00		96	73-131	5	20	
Methyl-tert-Butyl Ether	20.8	0.50	ug/L	20.00		104	68-135	9	20	
Naphthalene	23.2	1.0	ug/L	20.00		116	64-136	1	20	
n-Butylbenzene	20.9	1.0	ug/L	20.00		104	68-134	4	20	
n-Propylbenzene	20.5	0.50	ug/L	20.00		103	72-132	5	20	
o-Xylene	19.6	0.50	ug/L	20.00		98	78-128	3	20	
sec-Butylbenzene	20.8	0.50	ug/L	20.00		104	71-131	5	20	
Styrene	18.6	0.50	ug/L	20.00		93	78-129	3	20	
tert-Butylbenzene	20.4	0.50	ug/L	20.00		102	70-132	4	20	
Tetrachloroethylene	21.6	0.50	ug/L	20.00		108	80-129	4	20	
Toluene	20.1	0.50	ug/L	20.00		100	76-131	6	20	
trans-1,2-Dichloroethylene	20.3	0.50	ug/L	20.00		101	76-135	8	20	
trans-1,3-Dichloropropylene	20.8	0.50	ug/L	20.00		104	67-140	4	20	
Trichloroethylene	18.9	0.50	ug/L	20.00		95	77-133	6	20	
Trichlorofluoromethane	16.8	0.50	ug/L	20.00		84	62-148	7	20	
Vinyl acetate	19.6	2.0	ug/L	20.00		98	34-167	1	20	
Vinyl chloride	21.6	0.50	ug/L	20.00		108	57-141	6	20	
Surrogate: 4-Bromofluorobenzene	*49.5*		*ug/L*	*50.00*		*99*	*80-124*			
Surrogate: Dibromofluoromethane	*51.7*		*ug/L*	*50.00*		*103*	*75-129*			
Surrogate: Toluene-d8	*49.7*		*ug/L*	*50.00*		*99*	*77-123*			

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Hart & Hickman (Raleigh)
Attn: Laura Robertson
3334 Hillsborough St.
Raleigh, NC 27607

Project: Trion, Inc.

Project No: JCI-001

Prism Work Order: 4100463
Time Submitted: 10/24/2014 8:45:00AM

Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4J0467 - NO PREP										
Blank (P4J0467-BLK1)				Prepared & Analyzed: 10/24/14						
Chloride	BRL	1.0	mg/L							
Nitrate as N	BRL	0.10	mg/L							
Sulfate	BRL	1.0	mg/L							
LCS (P4J0467-BS1)				Prepared & Analyzed: 10/24/14						
Chloride	39.9	1.0	mg/L	40.00		100	80-120			
Nitrate as N	3.89	0.10	mg/L	4.000		97	80-120			
Sulfate	39.6	1.0	mg/L	40.00		99	80-120			
Matrix Spike (P4J0467-MS1)		**Source: 4100463-01**		Prepared & Analyzed: 10/24/14						
Chloride	50.8	1.0	mg/L	40.00	9.66	103	80-120			
Nitrate as N	5.13	0.10	mg/L	4.000	1.09	101	80-120			
Sulfate	47.9	1.0	mg/L	40.00	8.21	99	80-120			
Matrix Spike Dup (P4J0467-MSD1)		**Source: 4100463-01**		Prepared & Analyzed: 10/24/14						
Chloride	50.8	1.0	mg/L	40.00	9.66	103	80-120	0.1	15	
Nitrate as N	5.06	0.10	mg/L	4.000	1.09	99	80-120	1	15	
Sulfate	48.4	1.0	mg/L	40.00	8.21	100	80-120	1	15	

Sample Extraction Data

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date/Time
4100463-01	P4J0497	10 mL	10 mL	10/28/14 9:21
4100463-02	P4J0497	10 mL	10 mL	10/28/14 9:21
4100463-03	P4J0497	10 mL	10 mL	10/28/14 9:21
4100463-04	P4J0497	10 mL	10 mL	10/28/14 9:21
4100463-05	P4J0497	10 mL	10 mL	10/28/14 9:21
4100463-06	P4J0497	10 mL	10 mL	10/28/14 9:21
4100463-07	P4J0497	10 mL	10 mL	10/28/14 9:21
4100463-07	P4J0497	10 mL	10 mL	10/28/14 9:21
4100463-08	P4J0497	10 mL	10 mL	10/28/14 9:21
4100463-09	P4J0497	10 mL	10 mL	10/28/14 9:21
4100463-10	P4J0497	10 mL	10 mL	10/28/14 9:21
4100463-11	P4J0497	10 mL	10 mL	10/28/14 9:21

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Subcontracted Analyses

The following analyses were subcontracted to Gulf Coast Analytical Labs, Inc.

Lab Number	Analysis
4100463-01	RSK175 (Sub)
4100463-01	TOC (Sub)
4100463-02	RSK175 (Sub)
4100463-02	TOC (Sub)
4100463-03	RSK175 (Sub)
4100463-03	TOC (Sub)
4100463-04	RSK175 (Sub)
4100463-04	TOC (Sub)
4100463-05	RSK175 (Sub)
4100463-05	TOC (Sub)
4100463-06	RSK175 (Sub)
4100463-06	TOC (Sub)
4100463-07	RSK175 (Sub)
4100463-07	TOC (Sub)
4100463-08	RSK175 (Sub)
4100463-08	TOC (Sub)
4100463-09	RSK175 (Sub)
4100463-09	TOC (Sub)
4100463-10	RSK175 (Sub)
4100463-10	TOC (Sub)

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

449 Springbrook Road • Charlotte, NC 28217
Phone 704/529-6364 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE 1 OF 2 QUOTE # TO ENSURE PROPER BILLING: _____

Client Company Name: Hart + Hickman
Report To/Contact Name: Laura Robertson
Reporting Address: 3334 Hillsborough St. Raleigh, NC 27607
Phone: 919-847-4241 Fax (Yes) (No): _____
Email Address: lrobertson@harthickman.com
EDD Type: PDF ✓ Excel ✓ Other _____
Site Location Name: Trim, Inc.
Site Location Physical Address: Sanford, NC

Project Name: Trim, Inc. JCI-001
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (NO)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: Cynthia Wells
Address: 2923 S. Tryon Rd. Ste 100. Charlotte, NC
Purchase Order No./Billing Reference JCI-001
Requested Due Date ❑ 1 Day ❑ 2 Days ❑ 3 Days ❑ 4 Days ❑ 5 Days
"Working Days" ❑ 6-9 Days ❑ Standard 10 days ❑ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: IR4-10 Observed: 3.5 °C / Corr: 2.0 °C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC____ DoD____ FL____ NC ✓ SC____ OTHER____ N/A____
Water Chlorinated: YES___ NO ✓
Sample Iced Upon Collection: YES ✓ NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	624.1	9056A	RSK-175	TOC			REMARKS	PRISM LAB ID NO.
MW-17	10-23-14	10:10	W	A,VOA,P	10		HCl	✓	✓	✓	✓				01
MW-16	10-23-14	10:35	W	A,VOA,P	10		HCl	✓	✓	✓	✓				02
MW-13	10-23-14	12:15	W					✓	✓	✓	✓				03
DMW-1	10-23-14	13:40	W					✓	✓	✓	✓				04
MW-14	10-23-14	13:50	W					✓	✓	✓	✓				05
MW-7	10-23-14	15:10	W					✓	✓	✓	✓				06
MW-8	10-23-14	16:15	W					✓	✓	✓	✓				07
TMW-4	10-23-14	15:00	W					✓	✓	✓	✓				08
TMW-1	10-23-14	16:15	W					✓	✓	✓	✓				09
DUP-1	10-23-14	12:25	W					✓	✓	✓	✓				10

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature Laura Robertson Sampled By (Print Name) Laura Robertson Affiliation HH

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

		Date	Military/Hours
Relinquished By: (Signature) Laura Robertson	Received By: (Signature)	10-23-14	1745
Relinquished By: (Signature)	Received By: (Signature)	10-24-14	0830
Relinquished By: (Signature)	Received For Prism Laboratories By:	10-24-14	0845

Method of Shipment: ❑ Fedex ❑ UPS ❑ Hand-delivered ❑ Prism Field Service ☒ Other Beavex

NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.

COC Group No. 4100463

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
❑ NC ❑ SC	❑ NC ❑ SC	✓ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC	❑ NC ❑ SC

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

SEE REVERSE FOR TERMS & CONDITIONS

ORIGINAL

CHAIN OF CUSTODY RECORD

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Phone 704/529-6364 • Fax: 704/525-0409

PAGE 2 OF 2 QUOTE # TO ENSURE PROPER BILLING: _____

Project Name: Trion, Inc. JCI-001
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (NO)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: Cynthia Wells
Address: HH Charlotte, NC

Client Company Name: HH
Report To/Contact Name: Laura Robertson
Reporting Address: 3334 Hillsborough St Raleigh, NC 27607
Phone: 919-807-4724 Fax (Yes) (No): _____
Email Address: lrobertson@heartlickhancock.com
EDD Type: PDF ✓ Excel ___ Other _____
Site Location Name: Trion, Inc.
Site Location Physical Address: Sanford, NC

Purchase Order No./Billing Reference JCI-001
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☐ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?			
Received ON WET ICE?			
PROPER PRESERVATIVES indicated?			
Received WITHIN HOLDING TIMES?			
CUSTODY SEALS INTACT?			
VOLATILES rec'd W/OUT HEADSPACE?			
PROPER CONTAINERS used?			

TEMP: Therm ID: _____ Observed: _____°C / Corr: _____°C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC ___ DoD ___ FL ___ NC ✓ SC ___ OTHER ___ N/A ___
Water Chlorinated: YES ___ NO ✓
Sample Iced Upon Collection: YES ✓ NO ___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSIS REQUESTED 8260						REMARKS	PRISM LAB ID NO.
Trip Blank	—	—	—	VOA				✓							11

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature _____ Sampled By (Print Name) Prism Labs Affiliation _____

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

		Date	Military/Hours
Relinquished By: (Signature) Laura Robertson	Received By: (Signature)	10-23-14	1745
Relinquished By: (Signature)	Received By: (Signature)	10-24-14	0830
Relinquished By: (Signature)	Received For Prism Laboratories By:	10-24-14	0845

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☒ Other Beavex

COC Group No. 4100463

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

SEE REVERSE FOR TERMS & CONDITIONS

DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC

UST:	GROUNDWATER:
☐ NC ☐ SC	☐ NC ☐ SC

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

ORIGINAL

ACCESS
ANALYTICAL, INC.

ANALYTICAL REPORT

CLIENT
Prism Laboratories Inc.
PO BOX 240543
Charlotte, NC 28224

ATTENTION
Robbi Jones

PROJECT ID
4100463

LABORATORY REPORT NUMBER
214102704

DATE
11/07/2014

Primary Data Review By

Curtis Ebker/Mgr of Data Del
Authorized Signature

Secondary Data Review By

Ashley B. Amick
Project Manager, Access Analytical, Inc.
aamick@accessanalyticalinc.com

PLEASE NOTE:

- **Unless otherwise noted, all analysis on this report performed at Gulf Coast Analytical Labs (GCAL), 7979 Innovation Park Dr., Baton Rouge, LA 70820.**
- **GCAL is SCDHEC certified laboratory # 73006, NCDENR certified lab # 618, GA certified lab # LA-01955, NELAP certified laboratory # 01955**
- Local support services for this project are provided by Access Analytical, Inc.. Access Analytical is a representative of GCAL serving clients in the SC/NC/GA areas. All questions regarding this report should be directed to your local Access Analytical representative at 803.781.4243 or toll free at 888.315.4243.

GCAL
ANALYTICAL LABORATORIES, LLC

NELAP CERTIFICATE NUMBER: 01955
DOD ELAP CERTIFICATE NUMBER: L14-243

ANALYTICAL RESULTS

PERFORMED BY

GCAL, LLC
7979 Innovation Park Dr.
Baton Rouge, LA 70820

Report Date 11/07/2014

GCAL Report 214102704

Deliver To	Prism Laboratories Inc. PO BOX 240543 Charlotte, NC 28224 706-529-6364
Attn	Robbi Jones

Project 4100463

PJLA Testing DoD ELAP

ISO 17025

NELAP ACCREDITED TNI LABORATORY

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified LOQ
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
MDL	Method Detection Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates the result is between the MDL and LOQ
U	Indicates the compound was analyzed for but not detected
B	Indicates the analyte was detected in the associated Method Blank

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

Curtis Ekker/Mgr of Data Del

Authorized Signature
GCAL Report 214102704

Case Narrative

Client: Access Analytical **Report:** 214102704

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the Report Sample Summary page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

No anomalies were found in the analyzed sample(s).

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21410270401	MW-17	Water	10/23/2014 10:10	10/25/2014 09:45
21410270402	MW-16	Water	10/23/2014 10:35	10/25/2014 09:45
21410270403	MW-13	Water	10/23/2014 12:15	10/25/2014 09:45
21410270404	DMW-1	Water	10/23/2014 13:40	10/25/2014 09:45
21410270405	MW-14	Water	10/23/2014 13:50	10/25/2014 09:45
21410270406	MW-7	Water	10/23/2014 15:10	10/25/2014 09:45
21410270407	MW-8	Water	10/23/2014 16:15	10/25/2014 09:45
21410270408	TMW-4	Water	10/23/2014 15:00	10/25/2014 09:45
21410270409	TMW-1	Water	10/23/2014 16:15	10/25/2014 09:45
21410270410	DUP-1	Water	10/23/2014 12:25	10/25/2014 09:45

Summary of Compounds Detected

MW-17

Collect Date 10/23/2014 10:10 | GCAL ID 21410270401
Receive Date 10/25/2014 09:45 | Matrix Water

SM 5310 B-2011

CAS#	Parameter	Result	MDL	LOQ	Units
C-012	Total Organic Carbon	3.1	0.30	1.0	mg/L

MW-16

Collect Date 10/23/2014 10:35 | GCAL ID 21410270402
Receive Date 10/25/2014 09:45 | Matrix Water

SM 5310 B-2011

CAS#	Parameter	Result	MDL	LOQ	Units
C-012	Total Organic Carbon	1.8	0.30	1.0	mg/L

MW-13

Collect Date 10/23/2014 12:15 | GCAL ID 21410270403
Receive Date 10/25/2014 09:45 | Matrix Water

SM 5310 B-2011

CAS#	Parameter	Result	MDL	LOQ	Units
C-012	Total Organic Carbon	1.1	0.30	1.0	mg/L

MW-14

Collect Date 10/23/2014 13:50 | GCAL ID 21410270405
Receive Date 10/25/2014 09:45 | Matrix Water

EPA RSK-175

CAS#	Parameter	Result	MDL	LOQ	Units
74-85-1	Ethene	0.677J	0.071	1.00	ug/L

SM 5310 B-2011

CAS#	Parameter	Result	MDL	LOQ	Units
C-012	Total Organic Carbon	2.8	0.30	1.0	mg/L

MW-7

Collect Date 10/23/2014 15:10 | GCAL ID 21410270406
Receive Date 10/25/2014 09:45 | Matrix Water

EPA RSK-175

CAS#	Parameter	Result	MDL	LOQ	Units
74-85-1	Ethene	0.305J	0.071	1.00	ug/L

Summary of Compounds Detected

MW-7
Collect Date 10/23/2014 15:10 | GCAL ID 21410270406
Receive Date 10/25/2014 09:45 | Matrix Water

EPA RSK-175 (Continued)

CAS#	Parameter	Result	MDL	LOQ	Units
74-82-8	Methane	0.702J	0.435	2.00	ug/L

TMW-4
Collect Date 10/23/2014 15:00 | GCAL ID 21410270408
Receive Date 10/25/2014 09:45 | Matrix Water

SM 5310 B-2011

CAS#	Parameter	Result	MDL	LOQ	Units
C-012	Total Organic Carbon	0.78J	0.30	1.0	mg/L

TMW-1
Collect Date 10/23/2014 16:15 | GCAL ID 21410270409
Receive Date 10/25/2014 09:45 | Matrix Water

EPA RSK-175

CAS#	Parameter	Result	MDL	LOQ	Units
74-85-1	Ethene	0.760J	0.071	1.00	ug/L
74-82-8	Methane	3.41	0.435	2.00	ug/L

SM 5310 B-2011

CAS#	Parameter	Result	MDL	LOQ	Units
C-012	Total Organic Carbon	3.1	0.30	1.0	mg/L

DUP-1
Collect Date 10/23/2014 12:25 | GCAL ID 21410270410
Receive Date 10/25/2014 09:45 | Matrix Water

SM 5310 B-2011

CAS#	Parameter	Result	MDL	LOQ	Units
C-012	Total Organic Carbon	0.97J	0.30	1.0	mg/L

Sample Results

MW-17	Collect Date	10/23/2014 10:10	GCAL ID	21410270401
	Receive Date	10/25/2014 09:45	Matrix	Water

EPA RSK-175

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	11/04/2014 11:34	JAR	544237

CAS#	Parameter	Result	MDL	LOQ	Units
74-84-0	Ethane	0.087U	0.087	1.00	ug/L
74-85-1	Ethene	0.071U	0.071	1.00	ug/L
74-82-8	Methane	0.435U	0.435	2.00	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.50	26.1	ug/L	64	40 - 143

SM 5310 B-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	11/06/2014 23:04	JEM	544563

CAS#	Parameter	Result	MDL	LOQ	Units
C-012	Total Organic Carbon	3.1	0.30	1.0	mg/L

MW-16	Collect Date	10/23/2014 10:35	GCAL ID	21410270402
	Receive Date	10/25/2014 09:45	Matrix	Water

EPA RSK-175

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	11/04/2014 11:41	JAR	544237

CAS#	Parameter	Result	MDL	LOQ	Units
74-84-0	Ethane	0.087U	0.087	1.00	ug/L
74-85-1	Ethene	0.071U	0.071	1.00	ug/L
74-82-8	Methane	0.435U	0.435	2.00	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.50	29.7	ug/L	73	40 - 143

SM 5310 B-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	11/06/2014 23:35	JEM	544563

CAS#	Parameter	Result	MDL	LOQ	Units
C-012	Total Organic Carbon	1.8	0.30	1.0	mg/L

Sample Results

MW-13	Collect Date	10/23/2014 12:15	GCAL ID	21410270403
	Receive Date	10/25/2014 09:45	Matrix	Water

EPA RSK-175

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	11/04/2014 11:48	JAR	544237

CAS#	Parameter	Result	MDL	LOQ	Units
74-84-0	Ethane	0.087U	0.087	1.00	ug/L
74-85-1	Ethene	0.071U	0.071	1.00	ug/L
74-82-8	Methane	0.435U	0.435	2.00	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.50	36	ug/L	89	40 - 143

SM 5310 B-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	11/06/2014 05:41	JEM	544468

CAS#	Parameter	Result	MDL	LOQ	Units
C-012	Total Organic Carbon	1.1	0.30	1.0	mg/L

DMW-1	Collect Date	10/23/2014 13:40	GCAL ID	21410270404
	Receive Date	10/25/2014 09:45	Matrix	Water

EPA RSK-175

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	11/04/2014 11:54	JAR	544237

CAS#	Parameter	Result	MDL	LOQ	Units
74-84-0	Ethane	0.087U	0.087	1.00	ug/L
74-85-1	Ethene	0.071U	0.071	1.00	ug/L
74-82-8	Methane	0.435U	0.435	2.00	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.50	30	ug/L	74	40 - 143

SM 5310 B-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	11/06/2014 06:08	JEM	544468

CAS#	Parameter	Result	MDL	LOQ	Units
C-012	Total Organic Carbon	0.30U	0.30	1.0	mg/L

Sample Results

MW-14	Collect Date	10/23/2014 13:50	GCAL ID	21410270405
	Receive Date	10/25/2014 09:45	Matrix	Water

EPA RSK-175

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	11/04/2014 12:02	JAR	544237

CAS#	Parameter	Result	MDL	LOQ	Units
74-84-0	Ethane	0.087U	0.087	1.00	ug/L
74-85-1	**Ethene**	**0.677J**	**0.071**	**1.00**	**ug/L**
74-82-8	Methane	0.435U	0.435	2.00	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.50	32.1	ug/L	79	40 - 143

SM 5310 B-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	11/06/2014 06:27	JEM	544468

CAS#	Parameter	Result	MDL	LOQ	Units
C-012	**Total Organic Carbon**	**2.8**	**0.30**	**1.0**	**mg/L**

MW-7	Collect Date	10/23/2014 15:10	GCAL ID	21410270406
	Receive Date	10/25/2014 09:45	Matrix	Water

EPA RSK-175

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	11/04/2014 12:07	JAR	544237

CAS#	Parameter	Result	MDL	LOQ	Units
74-84-0	Ethane	0.087U	0.087	1.00	ug/L
74-85-1	**Ethene**	**0.305J**	**0.071**	**1.00**	**ug/L**
74-82-8	**Methane**	**0.702J**	**0.435**	**2.00**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.50	27.4	ug/L	68	40 - 143

SM 5310 B-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	11/06/2014 06:49	JEM	544468

CAS#	Parameter	Result	MDL	LOQ	Units
C-012	Total Organic Carbon	0.30U	0.30	1.0	mg/L

Sample Results

MW-8

Collect Date	10/23/2014 16:15	GCAL ID	21410270407
Receive Date	10/25/2014 09:45	Matrix	Water

EPA RSK-175

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	11/04/2014 12:13	JAR	544237

CAS#	Parameter	Result	MDL	LOQ	Units
74-84-0	Ethane	0.087U	0.087	1.00	ug/L
74-85-1	Ethene	0.071U	0.071	1.00	ug/L
74-82-8	Methane	0.435U	0.435	2.00	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.50	26.6	ug/L	66	40 - 143

SM 5310 B-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	11/07/2014 00:08	JEM	544563

CAS#	Parameter	Result	MDL	LOQ	Units
C-012	Total Organic Carbon	0.30U	0.30	1.0	mg/L

TMW-4

Collect Date	10/23/2014 15:00	GCAL ID	21410270408
Receive Date	10/25/2014 09:45	Matrix	Water

EPA RSK-175

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	11/04/2014 13:03	JAR	544237

CAS#	Parameter	Result	MDL	LOQ	Units
74-84-0	Ethane	0.087U	0.087	1.00	ug/L
74-85-1	Ethene	0.071U	0.071	1.00	ug/L
74-82-8	Methane	0.435U	0.435	2.00	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.50	21.3	ug/L	53	40 - 143

SM 5310 B-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	11/07/2014 00:32	JEM	544563

CAS#	Parameter	Result	MDL	LOQ	Units
C-012	Total Organic Carbon	0.78J	0.30	1.0	mg/L

Sample Results

TMW-1	Collect Date	10/23/2014 16:15	GCAL ID	21410270409
	Receive Date	10/25/2014 09:45	Matrix	Water

EPA RSK-175

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	11/04/2014 13:48	JAR	544237

CAS#	Parameter	Result	MDL	LOQ	Units
74-84-0	Ethane	0.087U	0.087	1.00	ug/L
74-85-1	**Ethene**	**0.760J**	**0.071**	**1.00**	**ug/L**
74-82-8	**Methane**	**3.41**	**0.435**	**2.00**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.50	27.8	ug/L	69	40 - 143

SM 5310 B-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	11/06/2014 08:04	JEM	544468

CAS#	Parameter	Result	MDL	LOQ	Units
C-012	**Total Organic Carbon**	**3.1**	**0.30**	**1.0**	**mg/L**

DUP-1	Collect Date	10/23/2014 12:25	GCAL ID	21410270410
	Receive Date	10/25/2014 09:45	Matrix	Water

EPA RSK-175

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	11/04/2014 13:57	JAR	544237

CAS#	Parameter	Result	MDL	LOQ	Units
74-84-0	Ethane	0.087U	0.087	1.00	ug/L
74-85-1	Ethene	0.071U	0.071	1.00	ug/L
74-82-8	Methane	0.435U	0.435	2.00	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.50	42.3	ug/L	104	40 - 143

SM 5310 B-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	11/06/2014 08:26	JEM	544468

CAS#	Parameter	Result	MDL	LOQ	Units
C-012	**Total Organic Carbon**	**0.97J**	**0.30**	**1.0**	**mg/L**

GC Volatiles Quality Control Summary

Analytical Batch 544237	Client ID	MB544237		LCS544237				LCSD544237				
	GCAL ID	1376368		1376369				1376370				
	Sample Type	MB		LCS				LCSD				
	Prep Date	NA		NA				NA				
	Analysis Date	11/04/2014 11:03		11/04/2014 11:10				11/04/2014 11:17				
	Matrix	Water		Water				Water				
EPA RSK-175		Units Result	ug/L MDL	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Ethane	74-84-0	0.087U	0.087	3.28	3.08	94	45 - 128	3.28	2.93	89	5	29
Ethene	74-85-1	0.071U	0.071	3.06	2.95	96	45 - 134	3.06	2.63	86	11	25
Methane	74-82-8	0.435U	0.435	17.5	15.0	86	39 - 120	17.5	14.1	81	6	27
Surrogate												
Propene	115-07-1	28.1	69	40.5	35	86	40 - 143	40.5	33.1	82	6	NA

General Chemistry Quality Control Summary

Analytical Batch 544468	Client ID	MB544468		LCS544468				LCSD544468				
	GCAL ID	1377484		1377485				1378133				
	Sample Type	MB		LCS				LCSD				
	Prep Date	NA		NA				NA				
	Analysis Date	11/06/2014 05:35		11/06/2014 04:56				11/06/2014 10:04				
	Matrix	Water		Water				Water				
SM 5310 B-2011		Units Result	mg/L MDL	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Total Organic Carbon	C-012	0.30U	0.30	50.0	46.3	92	80 - 120	50.0	51.5	103	11	25

Analytical Batch 544563	Client ID	MB544563		LCS544563			
	GCAL ID	1378156		1378157			
	Sample Type	MB		LCS			
	Prep Date	NA		NA			
	Analysis Date	11/06/2014 17:39		11/06/2014 16:42			
	Matrix	Water		Water			
SM 5310 B-2011		Units Result	mg/L MDL	Spike Added	Result	%R	Control Limits%R
Total Organic Carbon	C-012	0.30U	0.30	50.0	46.6	93	80 - 120

Analytical Batch 544563	Client ID	U31PS201G		1373964MS				1373964MSD				
	GCAL ID	21410250601		1378158				1378159				
	Sample Type	SAMPLE		MS				MSD				
	Prep Date	NA		NA				NA				
	Analysis Date	11/06/2014 18:16		11/06/2014 18:36				11/06/2014 18:55				
	Matrix	Water		Water				Water				
SM 5310 B-2011		Units Result	mg/L MDL	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Total Organic Carbon	C-012	138	1.5	250	371	93	75 - 125	250	378	96	2	25

Analytical Batch 544563	Client ID	MW-2		1374253MS				1374253MSD				
	GCAL ID	21410270701		1378160				1378161				
	Sample Type	SAMPLE		MS				MSD				
	Prep Date	NA		NA				NA				
	Analysis Date	11/07/2014 00:52		11/07/2014 01:18				11/07/2014 01:49				
	Matrix	Water		Water				Water				
SM 5310 B-2011		Units Result	mg/L MDL	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Total Organic Carbon	C-012	0.09	0.30	50.0	48.8	97	75 - 125	50.0	47.1	94	4	25

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Sub to GCAL 10/24/14

SUBCONTRACT ORDER

Prism Laboratories, Inc.

4100463

Certification: NELAC___ USACE___ NC ✓ SC___ Other _____ N/A_____

SENDING LABORATORY:

Prism Laboratories, Inc.
P. O. Box 240543
Charlotte, NC 28224-0543
Phone: 800-529-6364
Fax: 704-525-0409
Project Manager: Robbi A. Jones

RECEIVING LABORATORY:

Gulf Coast Analytical Labs, Inc.
7979 GSRI Avenue
Baton Rouge, LA 70820
Phone :(225) 769-4900
Fax: (225) 767-5717

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 4100463-01	Water	Sampled:10/23/14 10:10	MW-17	1
TOC (Sub)		11/20/14 10:10		
RSK175 (Sub)		11/06/14 10:10		
Containers Supplied:				
Sample ID: 4100463-02	Water	Sampled:10/23/14 10:35	MW-16	2
RSK175 (Sub)		11/06/14 10:35		
TOC (Sub)		11/20/14 10:35		
Containers Supplied:				
Sample ID: 4100463-03	Water	Sampled:10/23/14 12:15	MW-13	3
RSK175 (Sub)		11/06/14 12:15		
TOC (Sub)		11/20/14 12:15		
Containers Supplied:				
Sample ID: 4100463-04	Water	Sampled:10/23/14 13:40	DMW-1	4
RSK175 (Sub)		11/06/14 13:40		
TOC (Sub)		11/20/14 13:40		
Containers Supplied:				

Client ID: 4565 - Access Analytical
SDG: 214102704
Due Date: 11/03/14

Released By	Date	Received By	Date
[signature]	10/24/14	Fed Ex	10/24/14
Fed Ex	10/25/14	Claucio GCAL	10/25/14 945
7116 2231 7706		3.5 4.3 EZZ	

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SUBCONTRACT ORDER

Prism Laboratories, Inc.

4100463

Certification: NELAC___ USACE___
NC ✓ SC___ Other _____
N/A_____

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 4100463-05	Water	Sampled: 10/23/14 13:50	MW-14	5
TOC (Sub)		11/20/14 13:50		
RSK175 (Sub)		11/06/14 13:50		
Containers Supplied:				
Sample ID: 4100463-06	Water	Sampled: 10/23/14 15:10	MW-7	6
TOC (Sub)		11/20/14 15:10		
RSK175 (Sub)		11/06/14 15:10		
Containers Supplied:				
Sample ID: 4100463-07	Water	Sampled: 10/23/14 16:15	MW-8	7
RSK175 (Sub)		11/06/14 16:15		
TOC (Sub)		11/20/14 16:15		
Containers Supplied:				
Sample ID: 4100463-08	Water	Sampled: 10/23/14 15:00	TMW-4	8
RSK175 (Sub)		11/06/14 15:00		
TOC (Sub)		11/20/14 15:00		
Containers Supplied:				
Sample ID: 4100463-09	Water	Sampled: 10/23/14 16:15	TMW-1	9
RSK175 (Sub)		11/06/14 16:15		
TOC (Sub)		11/20/14 16:15		
Containers Supplied:				
Sample ID: 4100463-10	Water	Sampled: 10/23/14 12:25	DUP-1	10
TOC (Sub)		11/20/14 12:25		
RSK175 (Sub)		11/06/14 12:25		
Containers Supplied:				

Client ID: 4565 - Access Analytical
SDG: 214102704
Due Date: 11/03/14

Released By	Date	Received By	Date
[signature]	10/24/14	Fed Ex	10/24/14
Fed Ex	10/25/14	[signature] CAL	10/25/14 945

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GCAL ANALYTICAL LABORATORIES, LLC

SAMPLE RECEIVING CHECKLIST

214102704

SAMPLE DELIVERY GROUP 214102704

Client 4565 - Access Analytical	**Transport Method** FEDEX
Profile Number 80255	**Received By** Saucier, Charlotte M.
Line Item(s) 1 - Water BTEX/Naph/MTBE	**Receive Date(s)** 10/25/14

CHECKLIST	YES	NO	NA
Were all samples received using proper thermal preservation?	☑	☐	☐
When used, were all custody seals intact?	☑	☐	☐
Were all samples received in proper containers?	☑	☐	☐
Were all samples received using proper chemical preservation?	☑	☐	☐
Was preservative added to any container at the lab?	☐	☑	☐
Were all containers received in good condition?	☑	☐	☐
Were all VOA vials received with no head space?	☑	☐	☐
Do all sample labels match the Chain of Custody?	☑	☐	☐
Did the Chain of Custody list the sampling technician?	☐	☑	☐
Was the COC maintained i.e. all signatures, dates and time of receipt included?	☑	☐	☐

COOLERS

Airbill	Thermometer ID: E22	Temp(°C)
7716 2231 7706		4.3
		3.5

DISCREPANCIES

None

LAB PRESERVATIONS

None

NOTES

Revision 1.4

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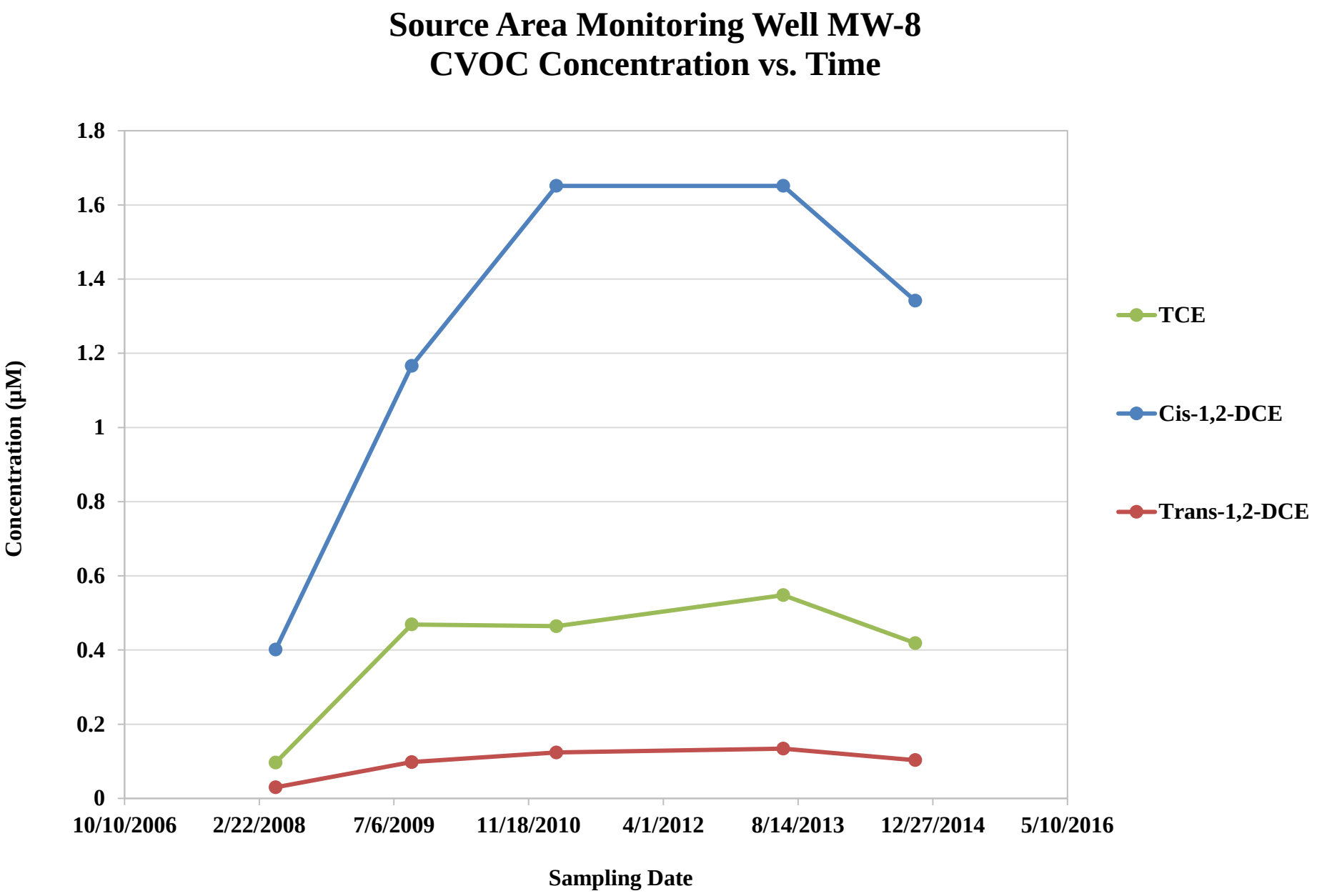
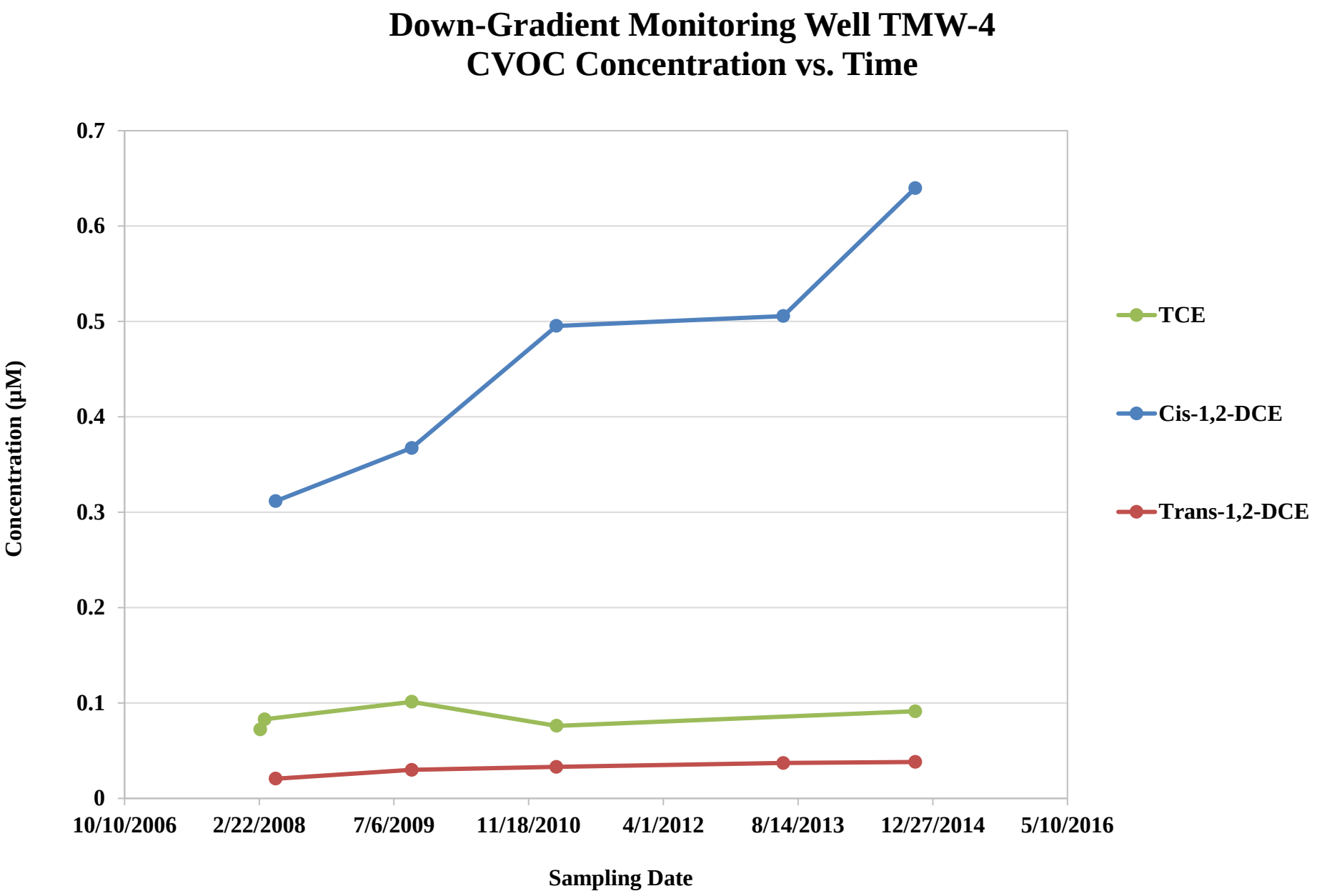
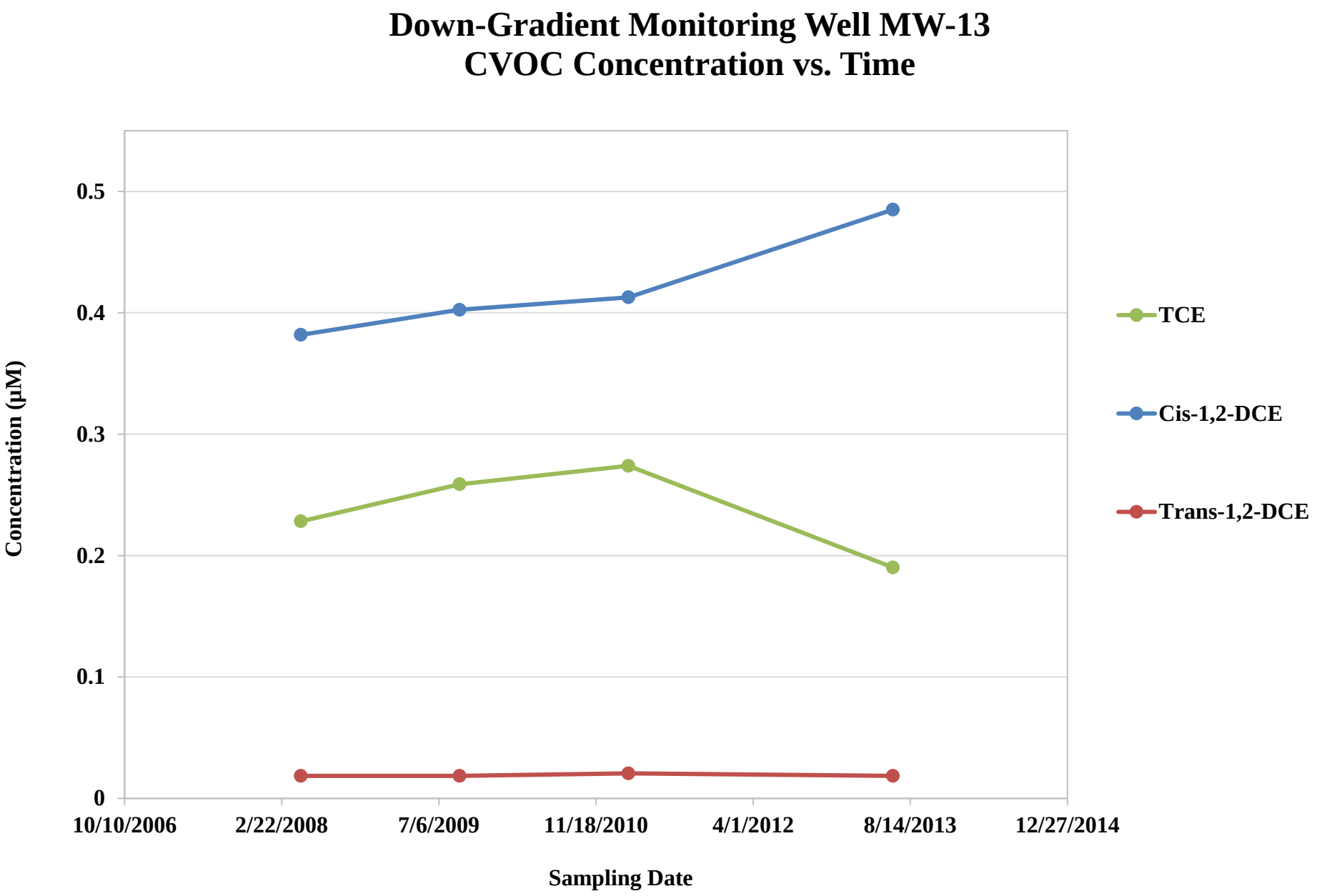
Appendix D

Contaminant Concentration Trend Graphs


Source Area Monitoring Well MW-8
CVOC Concentration vs. Time
Concentration (µM)
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
Sampling Date
TCE
Cis-1,2-DCE
Trans-1,2-DCE


Down-Gradient Monitoring Well TMW-4
CVOC Concentration vs. Time
Concentration (µM)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
12/27/2014
5/10/2016
Sampling Date
TCE
Cis-1,2-DCE
Trans-1,2-DCE


Down-Gradient Monitoring Well MW-13
CVOC Concentration vs. Time
Concentration (µM)
0.5
0.4
0.3
0.2
0.1
0
10/10/2006
2/22/2008
7/6/2009
11/18/2010
4/1/2012
8/14/2013
12/27/2014
Sampling Date
TCE
Cis-1,2-DCE
Trans-1,2-DCE