

March 31, 2014

Mr. Jesse Aviles
U.S. Environmental Protection Agency
Region 2 - RCRA
1492 Ponce de Leon
San Juan, PR 00907-4127

Re: Results of December 2014 Field Work and Semi-Annual Groundwater Sampling Event,
Caribe General Electric Distribution Transformers, Inc., Vieques, PR.

Dear Mr. Aviles:

In December of 2013, on behalf of General Electric Company (GE), Tetra Tech performed groundwater sampling activities at the Caribe General Electric Distribution Transformers, Inc. manufacturing facility in Vieques, Puerto Rico. The primary objective of the fieldwork was to collect a full round of groundwater samples to both examine the current distribution and natural attenuation of the following dissolved chlorinated solvents: trichloroethene (TCE), tetrachloroethene (PCE), vinyl chloride (VC), 1,1-dichloroethane (1,1-DCA), 1,1-dichloroethene (1,1-DCE), and cis-1,2-dichloroethene (cis-1,2-DCE) at the site. In addition, the pressure transducer water level data was downloaded from each well in order to examine groundwater flow directions over time.

Groundwater samples were collected from all 11 monitor wells by Tetra Tech staff. Groundwater samples were analyzed for volatile organic compounds (VOCs) and natural attenuation parameters. A duplicate sample, field blank, equipment blank, and a trip blank were also collected for Quality Assurance/Quality Control purposes. As shown in Appendix A, groundwater samples have been collected periodically since 1990, with sampling at a quarterly frequency beginning in November 2005 and a semi-annual frequency beginning in 2008.

December Groundwater Sampling Event

On December 17, 2013, Tetra Tech personnel measured the static groundwater level of each of the eleven site monitor wells (C-1, C-2, C-3, C-4, C-5, C-6, C-7, C-8, C-9, C-10, and C-11) shown in Figure 1. The depth to bottom of each well was measured to determine if any accumulation of sediment was present. No significant accumulations of sediment were present in any wells as compared to previous measurements. After taking a round of water level measurements, groundwater samples were collected on December 17th using low-flow sampling

techniques (Puls and Barcelona, 1996). During groundwater sampling, a submersible pump and 2-stage water spout pump were used to collect groundwater samples. Disposable polyethylene tubing was used to sample each well. The monitoring wells were purged at low rates to ensure the pump's discharge rate did not exceed the recharge rate. Field parameter measurements, including pH, conductivity, temperature, turbidity, dissolved oxygen, and oxidation-reduction potential were taken during purging. Purging was performed at a rate of 0.1 to 0.5 L/min. Samples were collected after the parameters stabilized to within 10% for three consecutive measurements. Approximately 1 to 3 gallons were purged from each well before sampling. During sample collection, the pump discharge was decreased to approximately 100 ml/min to reduce agitation that might contribute to volatilization of the sample.

Sampling team members documented the transfer of sample containers from the laboratory to the field and from the field back to the laboratory. The VOC and natural attenuation samples were stored in coolers that contained ice and sent to Tri-Matrix Laboratories, Inc. All coolers were sent via FedEx International Priority to ensure the samples would be received on time and cool to meet the required temperature of 4° C.

Water Level Results and Groundwater Flow Direction

Using the downloaded water level data from the pressure transducers in each well, potentiometric surface maps (Figures 2-4) were constructed to examine groundwater flow directions on June 15, August 15, and October 15 of 2013. Figure 5 presents a potentiometric surface map for December 17, 2013 based on water level measurements using a Solinst water level meter. In general, the groundwater flow directions were similar over this period with a general direction to the north-northwest toward the Atlantic Ocean, which is consistent with regional hydrogeologic information. The distance from the northern property boundary to the Atlantic Ocean is approximately 2000 ft. Both short and long term hydrographs are presented in Appendix B. From July to December of 2013, the hydrographs show similar water fluctuations from precipitation events with fluctuation differences in each well related to the variable distribution of subsurface fractures in the granodiorite. The long term hydrographs (Appendix B) exhibit long term trends consistent with higher precipitation rates during rainy season (August to November) and lower rates during the dry season (February to March) in Vieques.

Groundwater Sampling Results for VOC and Natural Attenuation Parameters

After the round of water level measurements, groundwater sampling was performed on December 17th of 2013. Samples were analyzed for VOCs, biodegradation products, and natural attenuation parameters. The laboratory analytical results, including a duplicate sample, equipment blank, field blank, and trip blank are summarized in Table 2. The spatial distribution of elevated VOCs in groundwater is shown in Figure 6. The equipment blank was collected by pouring analyte-free water through polyethylene tubing into sample containers. The laboratory data summary report, which was certified by a licensed Puerto Rico chemist, is provided in Appendix C. Field sampling forms are provided in Appendix D. Data from a duplicate sample are also included.

Natural Attenuation Indicators. The natural attenuation data collected during groundwater sampling in December 2013 are also summarized in Table 2. Figure 7 presents a spatial plot of the natural attenuation parameters in order to examine their spatial distribution in groundwater. An analysis of the natural attenuation data including low ORP and elevated methane indicates that redox conditions are primarily reducing both in the higher concentration zones of TCE, cis-1,2-DCE and 1,1-DCE (near C-7 and C-11) and at the downgradient location (C-10) where the chlorinated compound concentrations are below MCLs. The natural attenuation data at deep monitor wells C-7, C-10, and C-11 also indicate that conditions become more anaerobic at greater depths in groundwater.

VOCs. The only compounds detected at concentrations above the maximum contaminant levels (MCLs) were TCE, 1,1-DCE, cis-1,2-DCE, and VC. Other chlorinated compounds (1,1-DCA and PCE) were detected but were below the MCL. Plots showing the spatial distribution of TCE, cis-1,2-DCE, 1,1-DCE, 1,1 DCA, VC, and ethene are provided in Figure 6. Elevated concentrations of TCE were present in C-4 (44 µg/L), C-8 (37 µg/L), and C-11 (63 µg/L). Elevated concentrations of degradation products cis 1,2 DCE (520 µg/L), VC (3 µg/L), and ethene (17 µg/L) were detected in C-7 indicating sequential degradation (TCE→cis 1,2 DCE→VC→ethene) of historically high TCE in this area. Time series plots of historical chlorinated solvent concentrations and ethene are provided in Appendix A. In the down-gradient monitoring wells C-9 and C-10, the concentrations of all targeted chlorinated VOCs remained below MCLs.

Figure 8 shows a plot of TCE, cis-1,2-DCE, VC, and ethene concentrations over time at monitor well C-7, which was selected because it has the historically highest concentration of these compounds. In C-7, the trends of TCE generally correlate inversely with trends of its degradation product (cis 1,2 DCE). In this sampling event, TCE concentrations have decreased while cis 1,2 DCE concentrations have increased. The continued presence of cis-1,2-DCE and VC biodegradation products in this well indicates that reductive dechlorination of TCE to VC is still occurring in this zone. The presence of ethene in C-7 indicates that complete reductive dechlorination (TCE→cis 1,2 DCE→VC→ethene→ethane) is still occurring. This interpretation is consistent with the ORP level (-85 mV) in C-7 (see Figure 7), which indicates anaerobic conditions are present in this zone. Although concentrations of TCE and cis-1,2-DCE have changed over time at C-7, the total chlorinated ethene mass has been relatively stable since November 2005 at this location.

Discussion

A review of the groundwater sampling data indicates that chlorinated compound concentrations have remained below MCLs in downgradient monitoring wells C-9 and C-10 since November 2005. As indicated in past reports, the relatively low groundwater concentrations and generally decreasing groundwater concentration trends indicate that separate-phase chlorinated VOC sources are unlikely to be present at the Facility. In this sampling event, the highest detected TCE concentration in groundwater was 63 µg/L (at well C-11), which is more than 3 orders of magnitude lower than the aqueous solubility of TCE (1,100,000 µg/L). The concentration trend is decreasing at all wells at which chlorinated compounds are detected, with

the exception of C-7. At C-7, the total chlorinated ethene mass has been stable since November 2005 even though concentrations of TCE and cis-1,2-DCE have changed over time. The natural attenuation data, overall decreasing trend of groundwater concentrations (Appendix A), and presence of daughter products demonstrate that biodegradation is occurring.

A review of the site data indicates that there are no unacceptable site risks from the presence of chlorinated VOCs in groundwater near the Facility. The chlorinated VOC concentrations are at or below MCLs in the down-gradient perimeter wells C-9 and C-10. Natural attenuation is causing chlorinated VOC concentrations to decrease along the groundwater flow path. Given that concentrations at the down-gradient wells continue to be low, there is no unacceptable risk to off-site potential receptors.

In addition to the above, there is no unacceptable risk to downgradient receptors because no domestic or production wells are used in the vicinity of the facility. A 1995 well survey found no domestic wells within a one-half mile radius north (down-gradient) of the plant (Pedro Panzardi & Associates, 1995). A 1995 USGS water well survey report (Open-File Report 95-368) found no active wells within a radius of at least one mile of the site. Public drinking water supplied to Vieques is piped from the Rio Blanco filtration plant located on the main island of Puerto Rico. A well field was operated on the south side of the island (in the Esperanza Valley alluvial deposits); operation of this well field, however, ceased in 1978 due to saltwater intrusion and groundwater on the island is no longer used for potable public water supply.

After 7 years of quarterly and semi-annual groundwater monitoring, the site data continue to support the viability of Monitored Natural Attenuation (MNA) as a potential site remedy. These site data indicate: (1) the apparent absence of an on-site non-aqueous phase liquid (NAPL) source area; (2) generally decreasing trend of TCE concentrations at well C-4; (3) detection of biodegradation products (such as cis-1,2-DCE, VC, ethene, and ethane) and elevated methane in C-7 and C-10; (4) presence of favorable conditions (such as low DO, negative ORP) for reductive dechlorination; and (5) downgradient chlorinated compound concentrations consistently below MCLs (wells C-9 and C-10). In addition, the aquifer in this area is reported not to be used for water production due to low yield and saltwater intrusion. Data from this site are consistent with the reports of locally low yield and saltwater intrusion, in that poor recharge was observed during drilling and purging, and that relatively higher chloride concentrations (470 mg/L) were detected at deep monitoring well C-7.

Conclusions and Path Forward

Both historical data and the data from the last twelve sampling rounds indicate decreasing concentration trends at all monitoring wells with the possible exception of C-7 (see Figure 8) where the data suggest the possibility of either a stable or decreasing trend. Monitoring Well C-7 was installed in October 2005 to a depth of 110 ft bgs. In this well, a 20 ft long well screen was constructed within the granodiorite, at a depth where groundwater flow, relative to shallower wells, is likely to be minimal because of both the observed lower number and decreased connectivity of fractures at this depth. The data at deep well C-7 indicate that complete dechlorination of TCE to ethene is still occurring in this zone but at a lower rate because of the less optimal anaerobic conditions that are present in this zone. The biodegradation rates of TCE

and its degradation products (cis-1,2-DCE, VC, ethene, and ethane) will continue to be examined as additional groundwater monitoring data are collected.

The next round of groundwater sampling will be performed in July 2014. Given that concentrations have decreased significantly from 310 µg/L (December 2012) to 63 µg/L (December 2013) in the new monitor well C-11, additional sampling data are recommended for trend analysis in order to assess whether a new monitor well should be installed downgradient of C-11. The continuous water level recording of groundwater elevations in all site monitor wells for a one year period has been completed and the pressure transducers have been removed. Consistent with measurements from the historical manual water level data, the continuous water level data indicate the absence of seasonal flow direction fluctuations and that groundwater flow is to the north-northwest. The results from the next sampling event in July 2014 will be provided in a semi-annual groundwater sampling report to be submitted to USEPA in October 2014.

If you have any questions, please call me at your convenience at (703) 885-5438.

Sincerely,

A handwritten signature in black ink that reads "Daniel K. Burnell". The signature is written in a cursive, slightly slanted style.

Daniel K. Burnell, Ph.D.
Sr. Hydrogeologist/Project Manager
Principal

cc:

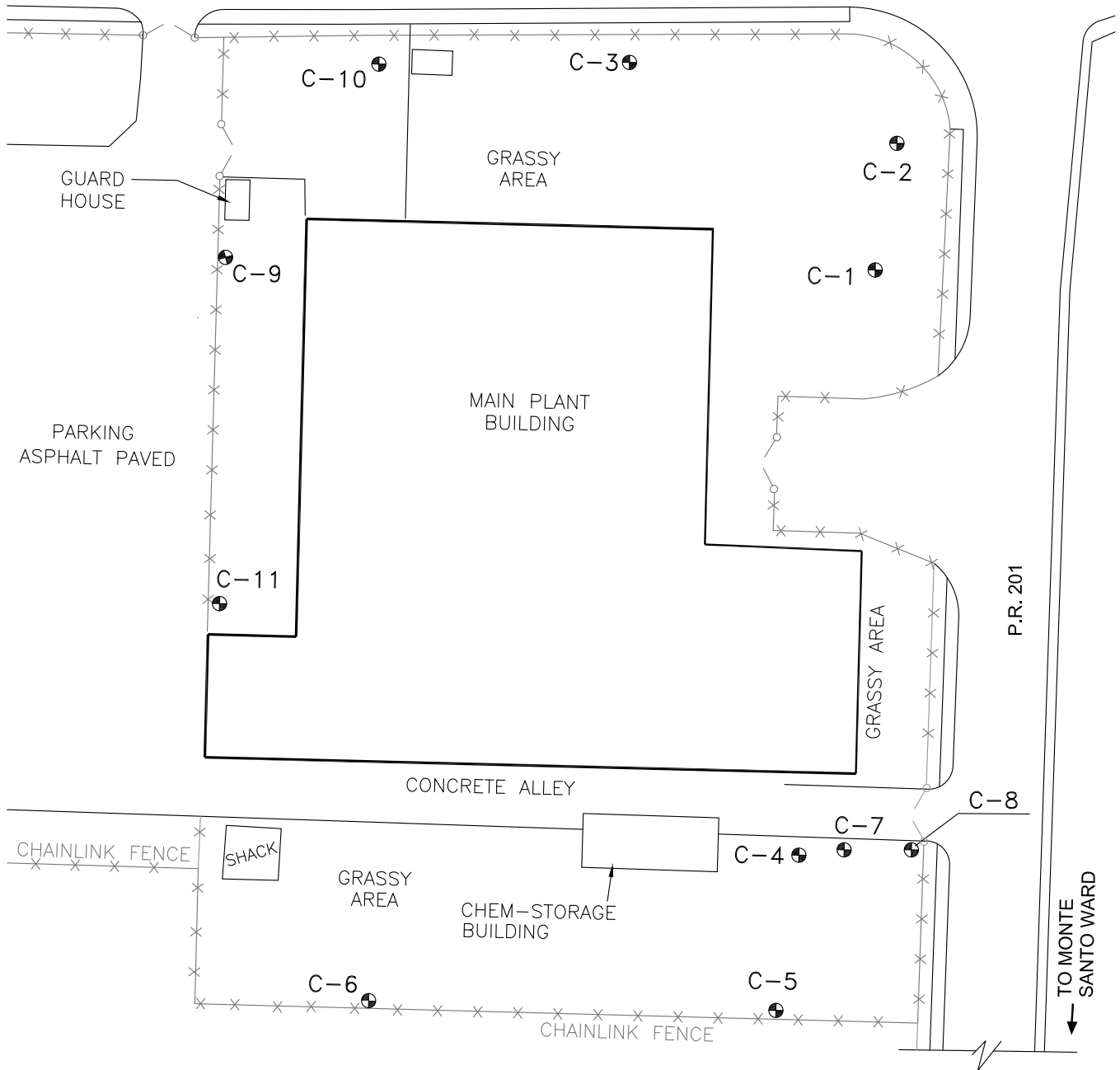
Marianna Dominguez, EPA
Dale Carpenter, EPA
Josephine C. Acevedo Esquilín, EQB
Alfredo Olivo, GE Energy
Rodolfo Seda Rosado, PRIDCO
Jackson Suddath, P.G., GE CEP

References

- Pedro Panzardi & Associates, 1995. Reuse of municipal solid wastes by recycling and conversion to energy and chemicals.
- Puls, R.W., and M.J. Barcelona, 1996. Ground Water Issue: Low-flow (minimal drawdown) ground-water sampling procedures, EPA/540/S-95/504, U.S. EPA Office of Research and Development, Washington, DC.
- U.S. EPA, 1998. *Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water*, EPA/600/R-98/128, ORD, Washington, D.C.
- U.S. Geological Survey (USGS), 1995. Water Wells on Isla de Vieques, Puerto Rico. Open-File Report, 1995.

FIGURES

P.R. 200



LEGEND

C-6 MONITORING WELL LOCATION AND DESIGNATION



TITLE:

SITE PLAN WITH MONITOR WELL LOCATIONS

LOCATION:

Caribe General Electric, Vieques, Puerto Rico

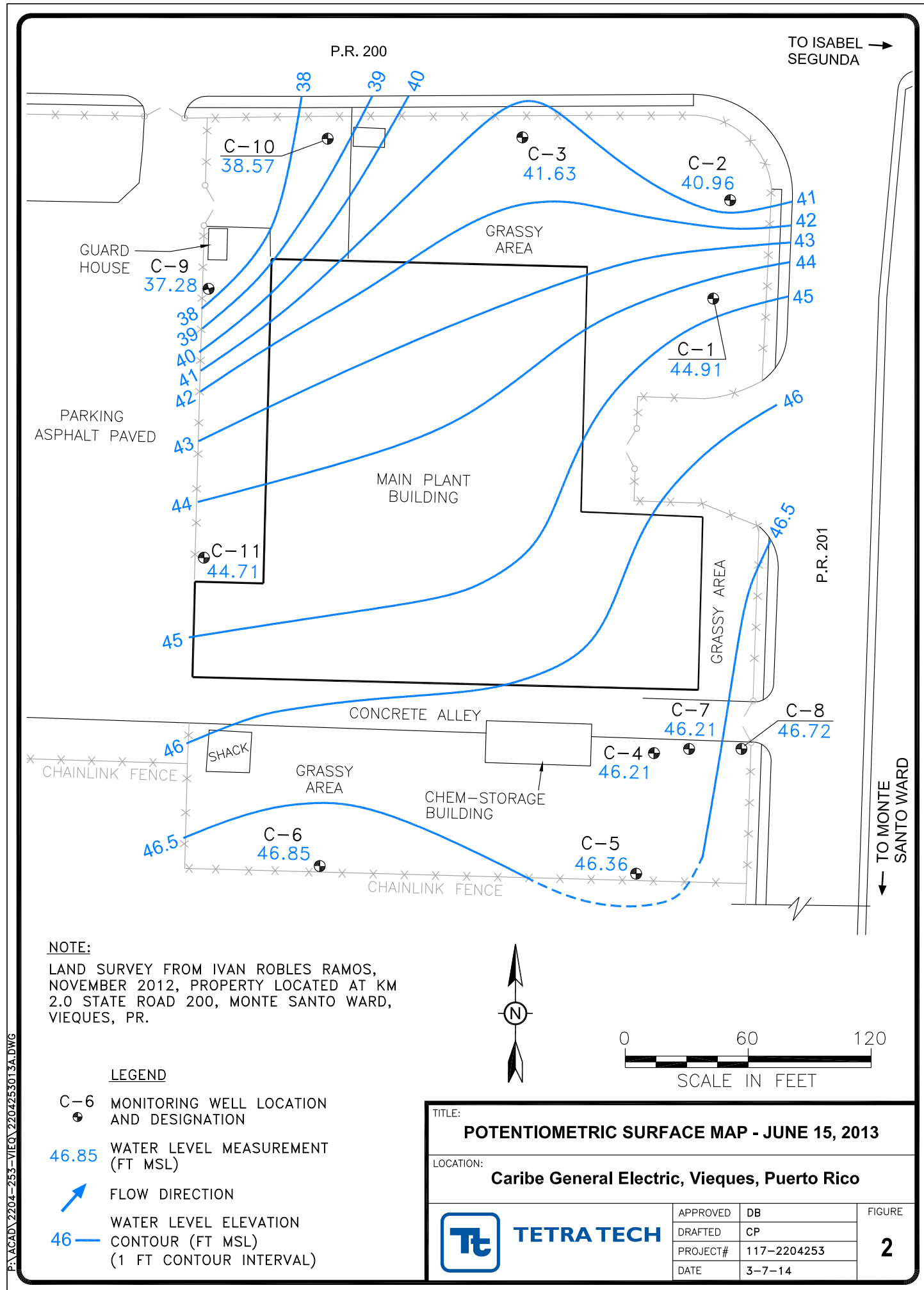


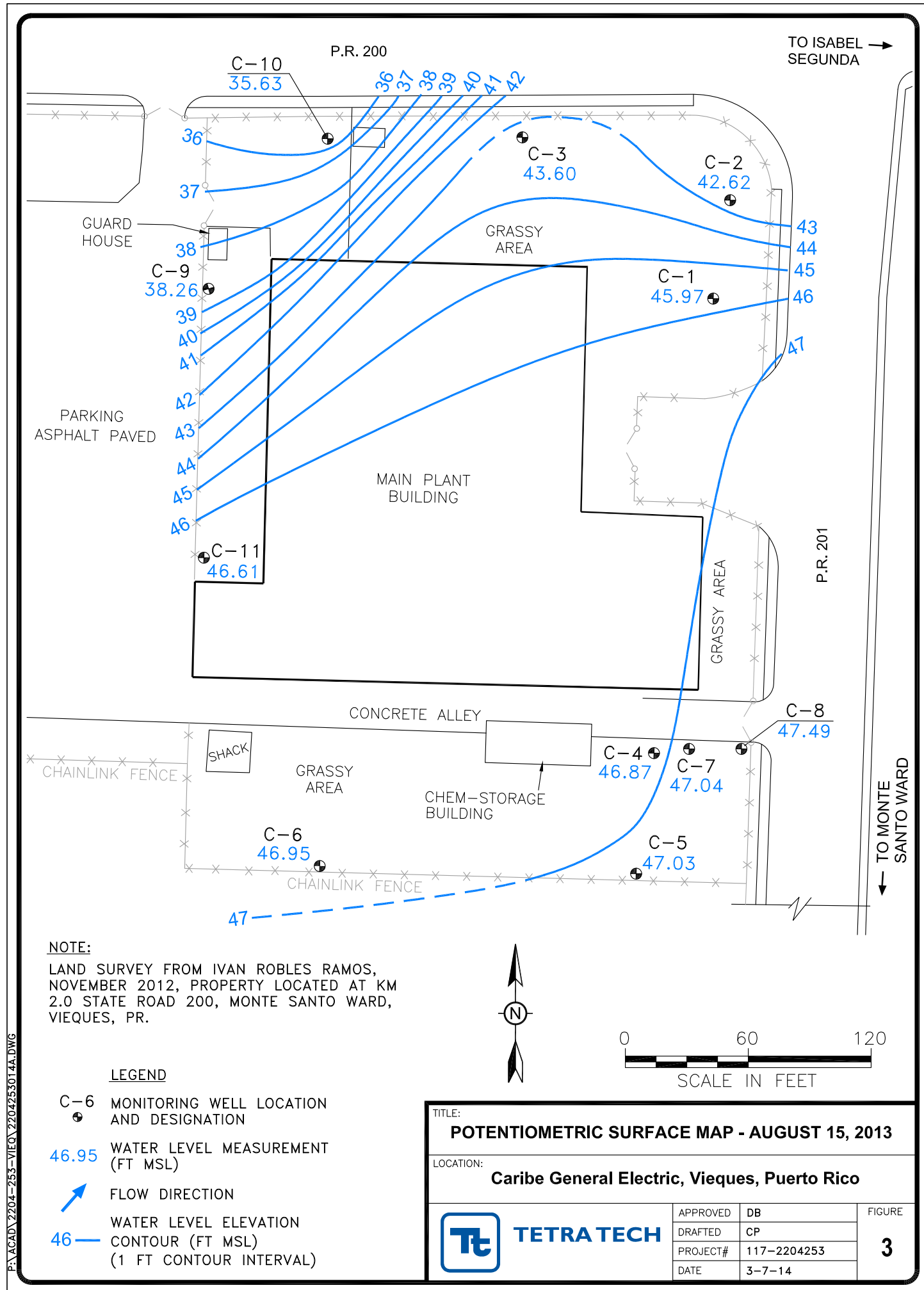
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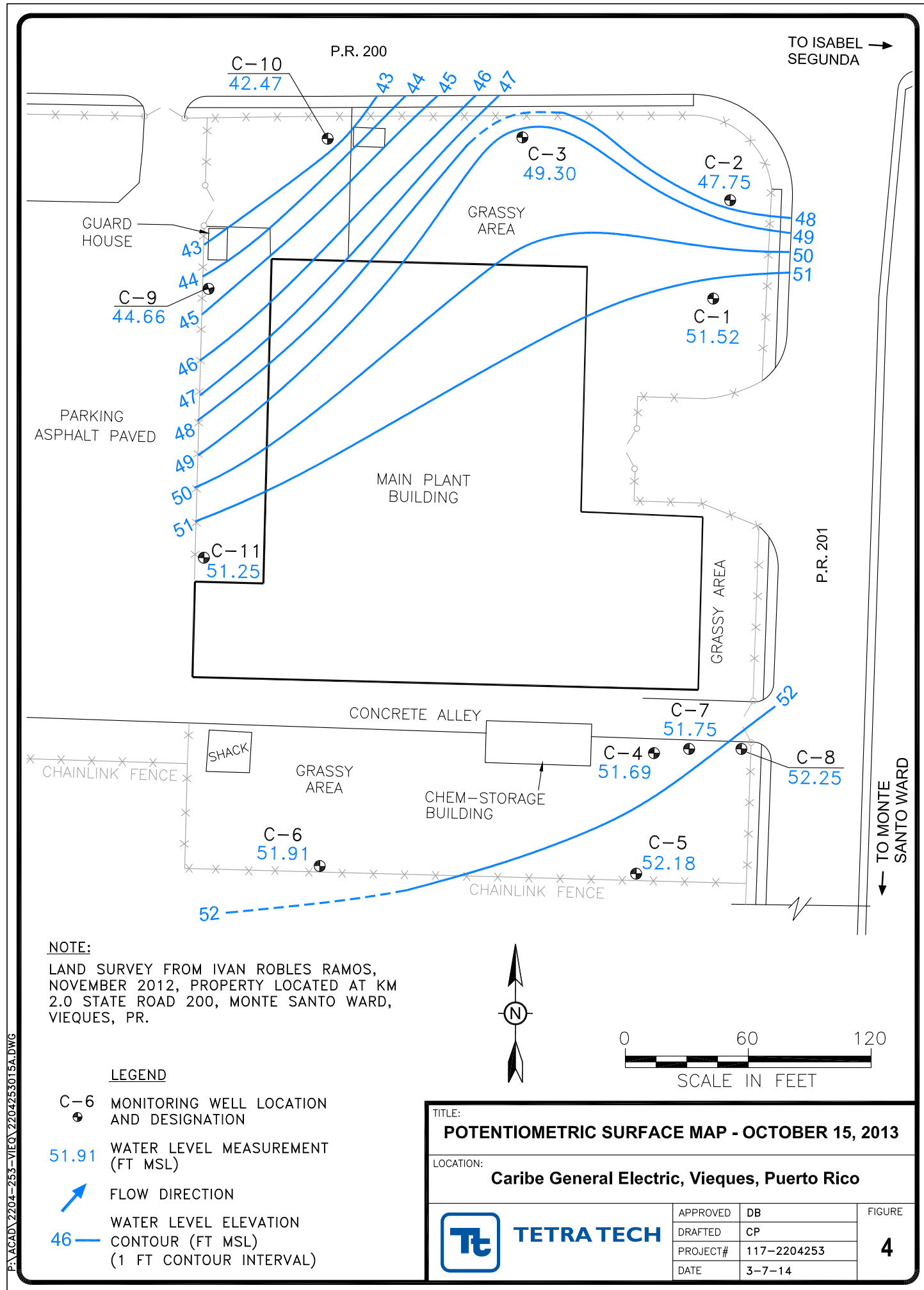
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DATE	3-7-14

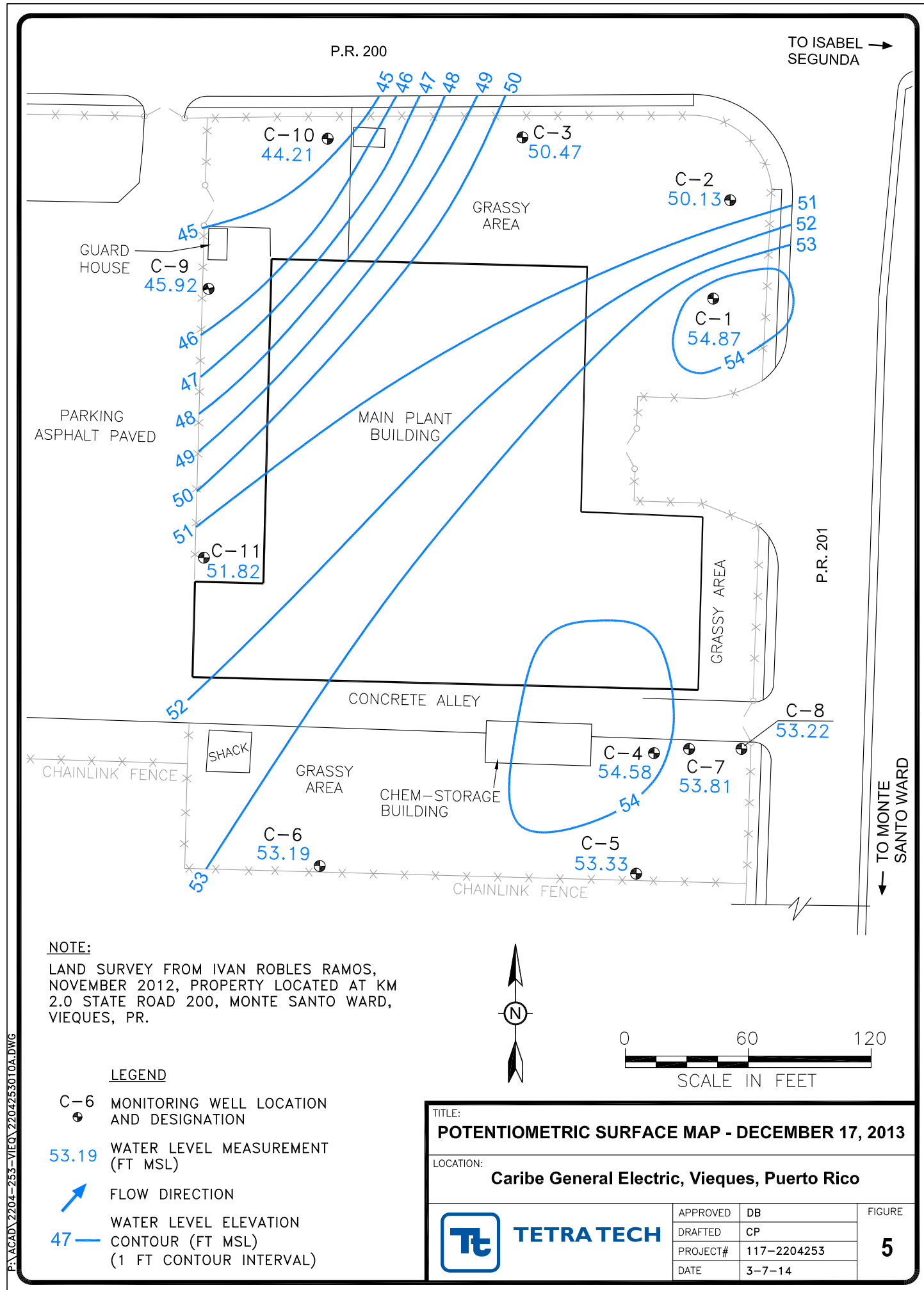
FIGURE

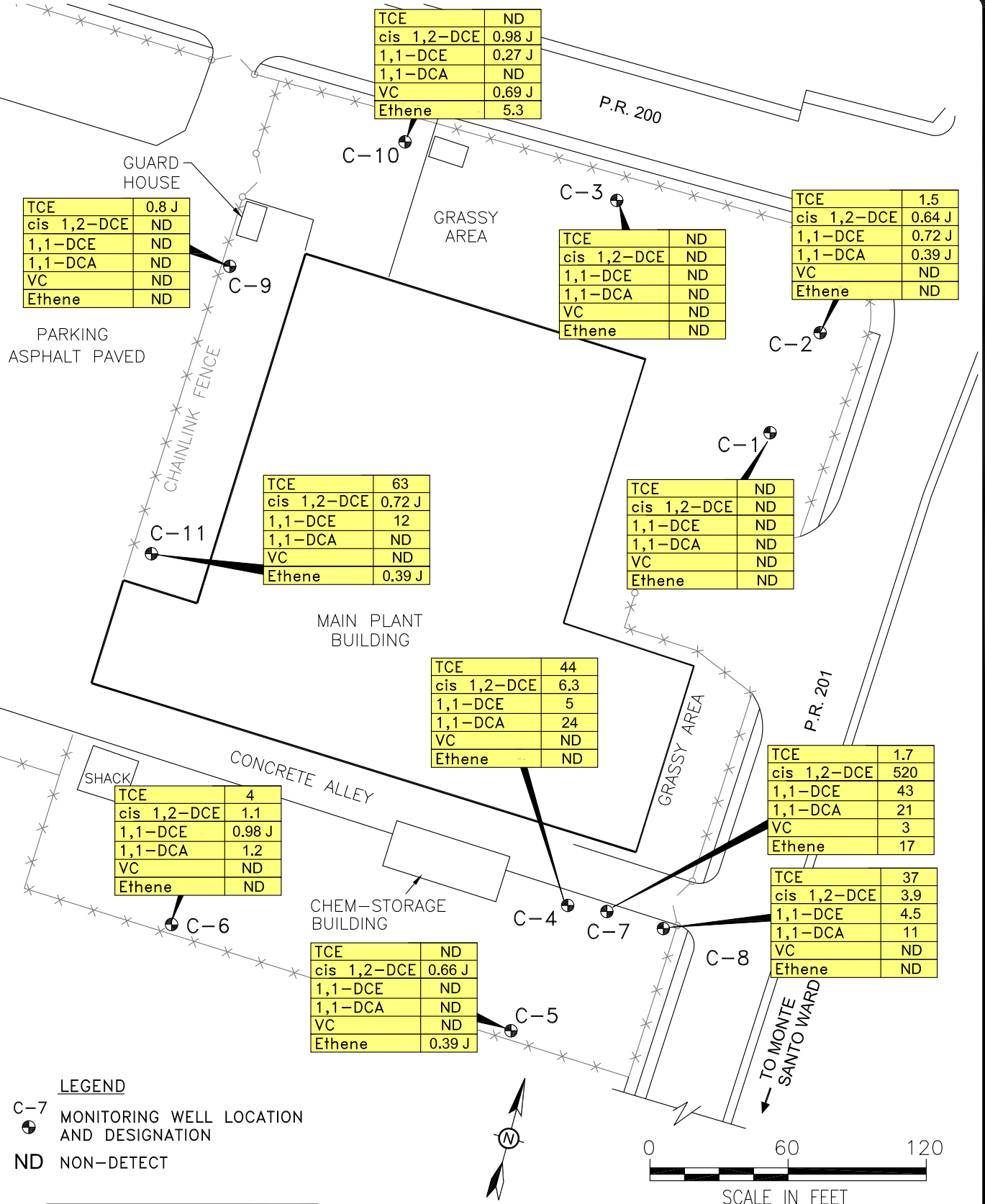
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GROUNDWATER CONCENTRATIONS (μg/L) IN DECEMBER 2013

LOCATION: Caribe General Electric, Vieques, Puerto Rico



TETRA TECH

APPROVED	DB
DRAFTED	CP
PROJECT#	117-2204253
DATE	3-7-14

FIGURE

6

Cl ⁻	17
CH ₄	0.46 J
C ₂ H ₆	ND
C ₂ H ₄	ND
TOC	0.91
ORP	133

Cl ⁻	180
CH ₄	17,000
C ₂ H ₆	1.6
C ₂ H ₄	5.3
TOC	43
ORP	-319

Cl ⁻	11
CH ₄	2.5
C ₂ H ₆	0.71 J
C ₂ H ₄	ND
TOC	1.2
ORP	48

Cl ⁻	13
CH ₄	0.53
C ₂ H ₆	ND
C ₂ H ₄	ND
TOC	1.1
ORP	142

Cl ⁻	12
CH ₄	36
C ₂ H ₆	0.28 J
C ₂ H ₄	0.39 J
TOC	1.5
ORP	10

Cl ⁻	28
CH ₄	110
C ₂ H ₆	ND
C ₂ H ₄	ND
TOC	1.9
ORP	-125

Cl ⁻	61
CH ₄	4.8
C ₂ H ₆	0.26 J
C ₂ H ₄	ND
TOC	1.0
ORP	84

Cl ⁻	330
CH ₄	0.21 J
C ₂ H ₆	0.32 J
C ₂ H ₄	ND
TOC	3
Mg	52
Ca	100
Na	530
ORP	161

Cl ⁻	470
CH ₄	18,000
C ₂ H ₆	ND
C ₂ H ₄	17
TOC	7.7
Mg	61
Ca	110
Na	550
ORP	-85

Cl ⁻	310
CH ₄	11
C ₂ H ₆	ND
C ₂ H ₄	0.39 J
TOC	4.7
ORP	60

Cl ⁻	340
CH ₄	22
C ₂ H ₆	ND
C ₂ H ₄	ND
TOC	2.5
ORP	153

LEGEND
 C-7 MONITORING WELL LOCATION AND DESIGNATION
 ND NON-DETECT
 NS NOT SAMPLED

Chloride (Cl ⁻)	mg/L
Methane (CH ₄)	μg/L
Ethane (C ₂ H ₆)	μg/L
Ethene (C ₂ H ₄)	μg/L
Total Organic Carbon (TOC)	mg/L
Magnesium (Mg)	mg/L
Calcium (Ca)	mg/L
Sodium (Na)	mg/L
Oxidation Reduction Potential (ORP)	mV

NOTE:
 MAGNESIUM (Mg), CALCIUM (Ca), AND SODIUM (Na) ONLY SAMPLED AT C-4 AND C-7.



TITLE: RESULTS OF NATURAL ATTENUATION GEOCHEMICAL ANALYSES IN DECEMBER 2012

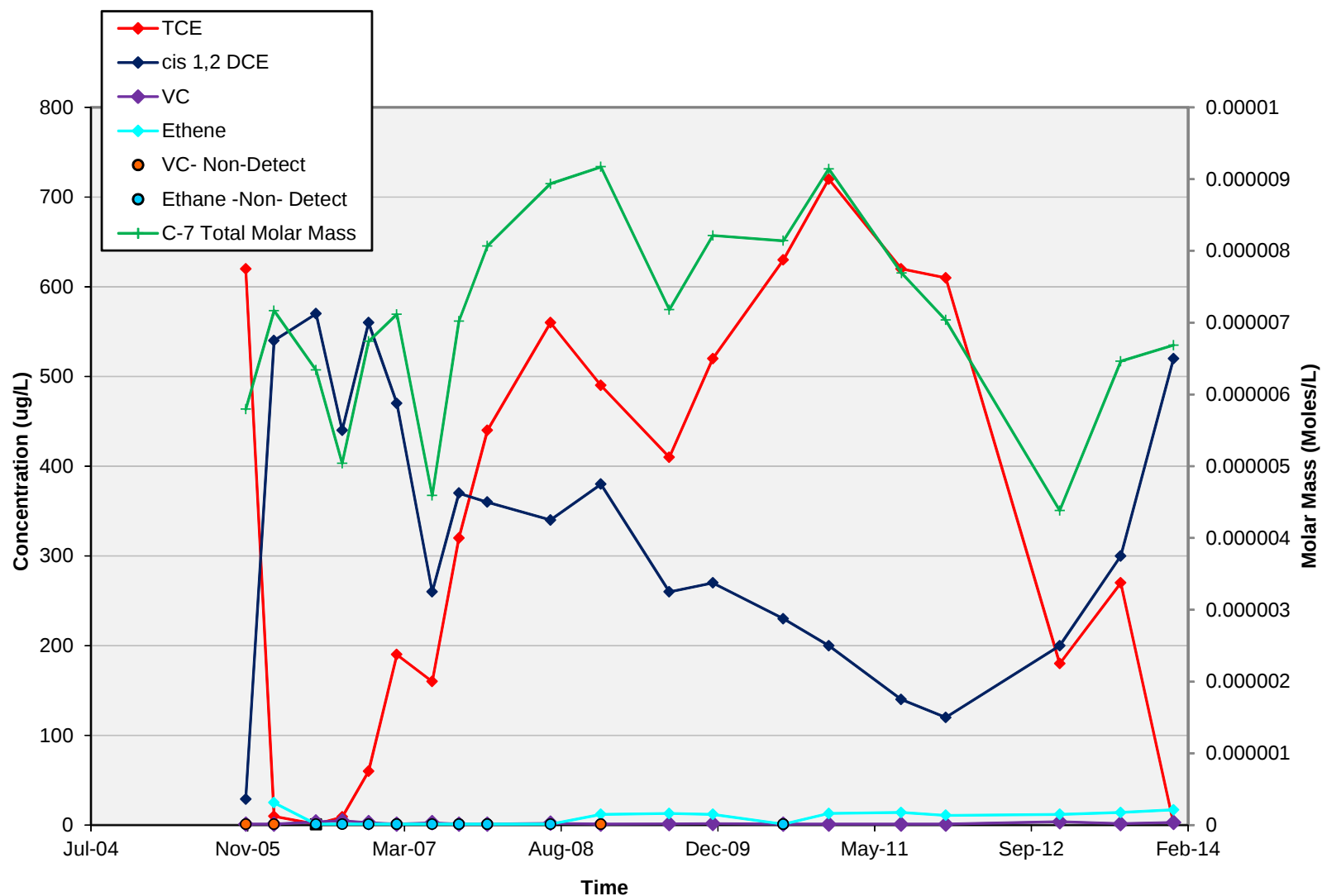
LOCATION: Caribe General Eletric, Vieques, Puerto Rico



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DATE	3-7-14

FIGURE
7



TITLE: TCE, CIS 1,2-DCE, AND VC CONCENTRATION ($\mu\text{g/L}$)
VS. TOTAL MOLAR MASS AT C-7

LOCATION: Caribe General Electric, Vieques, Puerto Rico



TETRA TECH

APPROVED	DB	FIGURE 8
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PROJECT#	117-2204253	
DATE	3-7-14	

TABLES

Table 1. Well construction information and groundwater level data collected on December 17, 2013.
Caribe General Electric Distribution Transformers Inc., Vieques, PR.

Well ID	Well Construction	Date Installed	Well Depth (ft BGS)	Ground Elev. (ft MSL)	Top of Casing Elev. (ft MSL)	Top of Screen (ft MSL)	Bottom of Screen (ft MSL)	Screen length (ft)	Head Elevation (ft MSL)
C-1	2" PVC	10/30/90	58.13	70.16	70.49	47.4	12.4	35.0	54.87
C-2	2" PVC	10/31/90	61.83	68.45	68.78	37.0	7.0	30.0	50.13
C-3	2" PVC	10/25/90	60.86	70.44	71.00	35.1	10.1	25.0	50.47
C-4	2" PVC	11/1/90	50.09	76.15	77.04	62.0	27.0	35.0	54.58
C-5	2" PVC	3/12/03	70.10	87.46	90.06	60.0	20.0	40.0	53.33
C-6	2" PVC	3/12/03	51.18	90.51	91.69	60.5	40.5	20.0	53.19
C-7	2" PVC	10/18/05	111.64	74.74	76.38	-15.3	-35.3	20.0	53.81
C-8	2" PVC	9/30/05	49.73	72.90	75.13	45.4	25.4	20.0	53.22
C-9	2" PVC	10/6/05	64.09	77.41	79.80	35.7	15.7	20.0	45.92
C-10	2" PVC	10/13/05	82.30	76.03	78.33	18.7	-4.0	20.0	44.21
C-11	2" PVC	11/9/12	102.43	78.22	80.65	8.2	-21.8	30.0	51.82

Note: All well locations and elevations were resurveyed in November 2012.

MSL = mean sea level

BGS = below ground surface

Table 2. Summary of detected volatile organic compounds and natural attenuation parameters collected in December 2013, Caribe General Electric Distribution Transformers Inc., Vieques, PR.

PARAMETER	Units	Method	MCL	C-1	C-2	C-3	C-4	C-5	C-6	C-7	C-8	C-9	C-10	C-11	C-12 (dup of C-4) ¹	Equipment Blank	Field Blank	Trip Blank	Storage Blank
Parameters showing levels above laboratory detection limits (in bold if above MCL).																			
1,1-Dichloroethane	μg/L	EPA 8260	NA	ND	0.39 J	ND	24	ND	1.2	21	11	ND	ND	ND	23	ND	ND	ND	ND
1,1-Dichloroethene	μg/L	EPA 8260	7	ND	0.72 J	ND	5	ND	0.98 J	43	4.5	ND	0.27 J	12	5	ND	ND	ND	ND
Chloroform	μg/L	EPA 8260	70 ²	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	μg/L	EPA 8260	70	ND	0.64 J	ND	6.3	0.66 J	1.1	520	3.9	ND	0.98 J	0.72 J	6.3	ND	ND	ND	ND
Tetrachloroethene	μg/L	EPA 8260	5	ND	ND	ND	1.8	ND	ND	ND	1.1	ND	ND	0.27 J	1.8	ND	ND	ND	ND
Trichloroethene	μg/L	EPA 8260	5	ND	1.5	ND	44	ND	4	1.7	37	0.8 J	ND	63	44	ND	ND	ND	ND
Vinyl Chloride	μg/L	EPA 8260	2	ND	ND	ND	ND	ND	ND	3	ND	ND	0.69 J	ND	ND	ND	ND	ND	ND
Chloride	mg/L	USEPA-325.2	NA	28	13	11	330	310	61	470	340	17	180	12	340	0.63 J	0.50 J	NS	NS
Ethane	μg/L	RSK-175	NA	ND	ND	0.71 J	0.32 J	ND	0.26 J	ND	ND	ND	1.6	0.28 J	ND	ND	ND	NS	NS
Ethene	μg/L	RSK-175	NA	ND	ND	ND	ND	0.39 J	ND	17	ND	ND	5.3	0.39 J	ND	ND	ND	NS	NS
Methane	μg/L	RSK-175	NA	110	0.53	2.5	0.21 J	11	4.8	18000	22	0.46 J	17000	36	0.27 J	ND	ND	NS	NS
Carbon, Total Organic	mg/L	USEPA-415.1	NA	1.9	1.1	1.2	3	4.7	1	7.7	2.5	0.91	43	1.5	3.1	0.30 J	0.13 J	NS	NS
Magnesium	mg/L	USEPA-6010B	NA	NS	NS	NS	52	NS	NS	61	NS	NS	NS	NS	NS	NS	NS	NS	NS
Calcium	mg/L	USEPA-6010B	NA	NS	NS	NS	100	NS	NS	110	NS	NS	NS	NS	NS	NS	NS	NS	NS
Sodium	mg/L	USEPA-6010B	NA	NS	NS	NS	330	NS	NS	550	NS	NS	NS	NS	NS	NS	NS	NS	NS
Field Parameters																			
pH	---	Horiba U22	NA	7.13	7.32	6.92	7.01	6.78	7.03	6.81	6.92	7.69	11.42	7.21	NA	NA	NA	NA	NA
Specific Conductance	μ S/cm	Horiba U22	NA	0.564	0.508	0.71	1.91	2.24	0.914	2.48	2.1	0.523	2.3	0.623	NA	NA	NA	NA	NA
Temperature	°C	Horiba U22	NA	28.27	28.42	27.07	30.49	27.65	28.13	28.98	29.86	30.51	27.99	27.3	NA	NA	NA	NA	NA
Turbidity	NTU	Horiba U22	NA	0	15.5	521	1.9	200	26.3	261	0	13	326	311	NA	NA	NA	NA	NA
Dissolved Oxygen	mg/L	Horiba U22	NA	0.81	2.10	0.71	2.03	0.55	2.19	0.49	1.23	5.25	0.35	0.85	NA	NA	NA	NA	NA
ORP	mV	Horiba U22	NA	-125	142	48	161	60	84	-85	153	133	-319	10	NA	NA	NA	NA	NA

Note: The drinking water criteria are presented based on USEPA standards, however, the aquifer is not used for potable water supply

NA = Not applicable

NS = Not sampled

ND = Not detected at concentration above laboratory detection limit

¹ Duplicate sample collected at location C-4

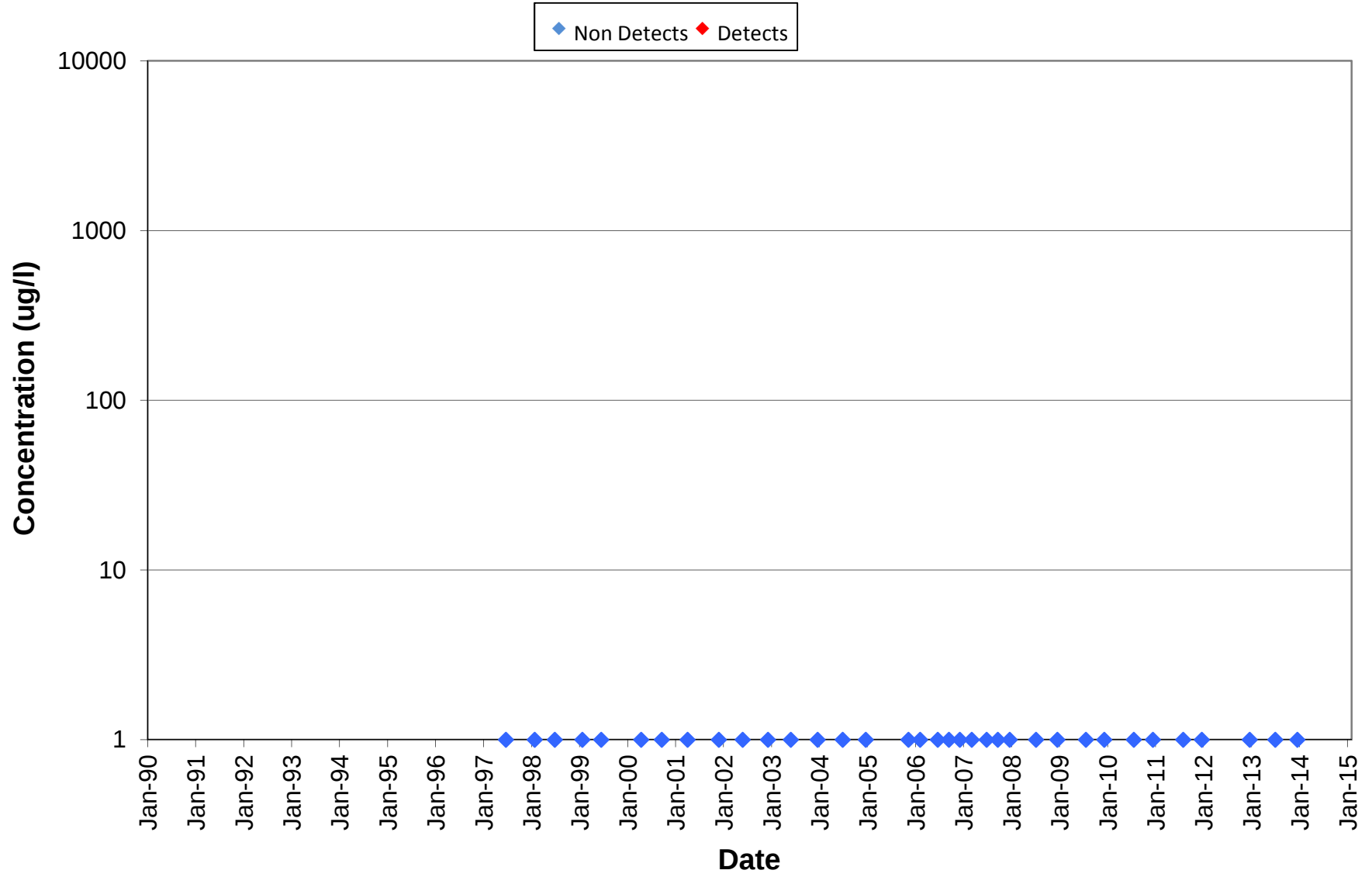
² MCL for total trihalomethanes is listed since no MCL is available for chloroform

Field parameters recorded in this table are values immediately prior to sampling

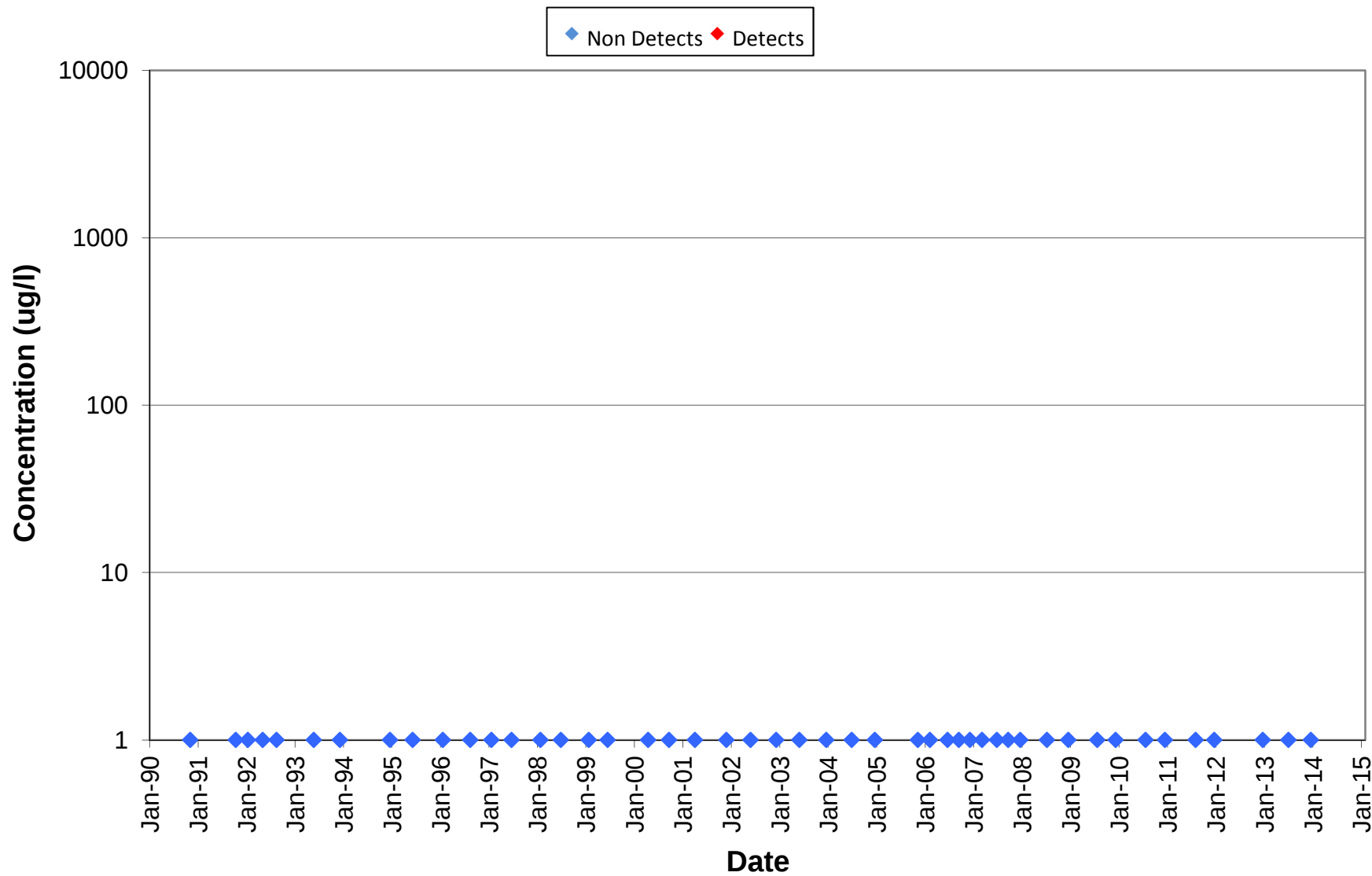
ORP = oxidation reduction potential

APPENDIX A

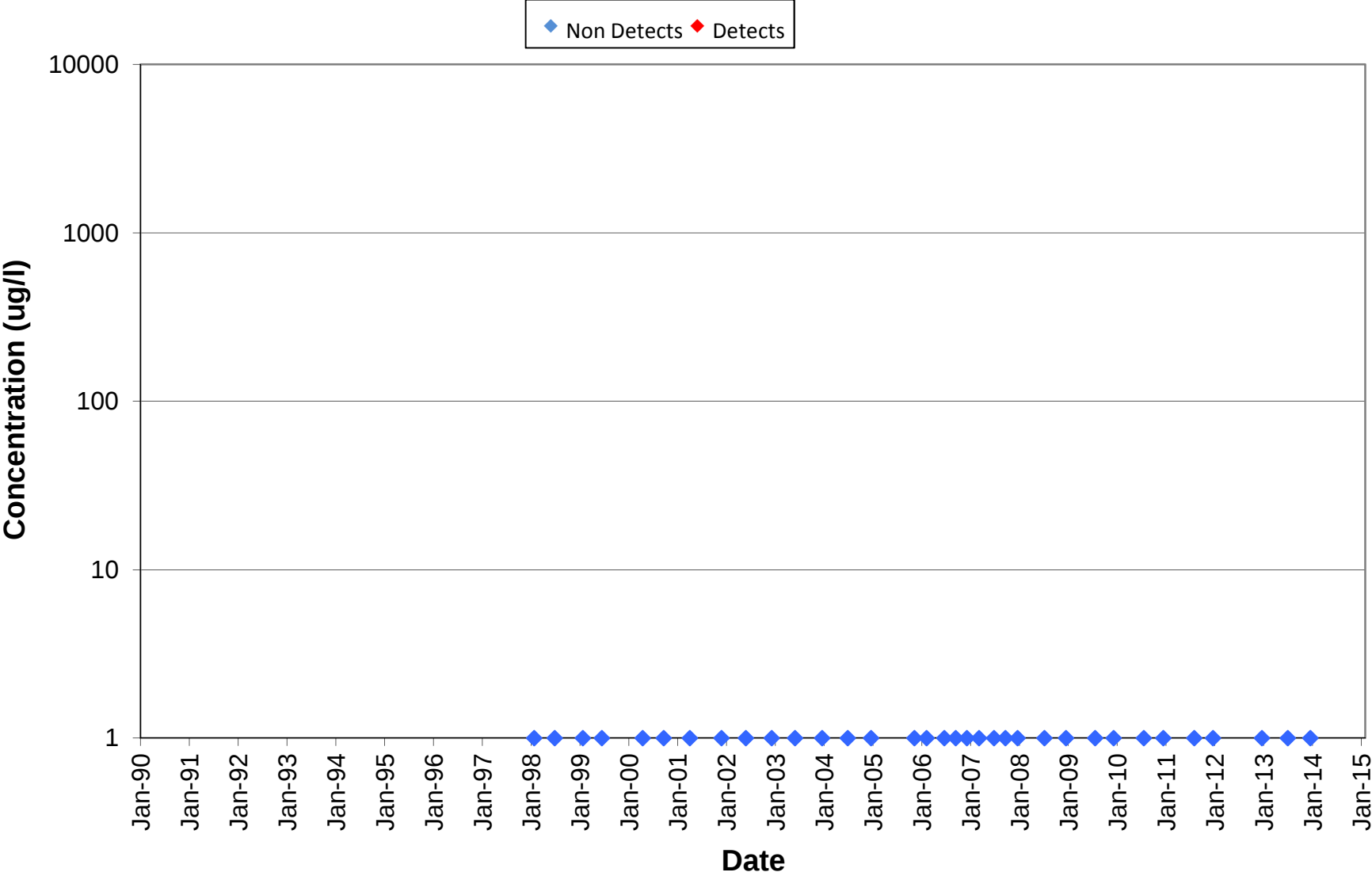
C-1 1,1 DCA Concentrations



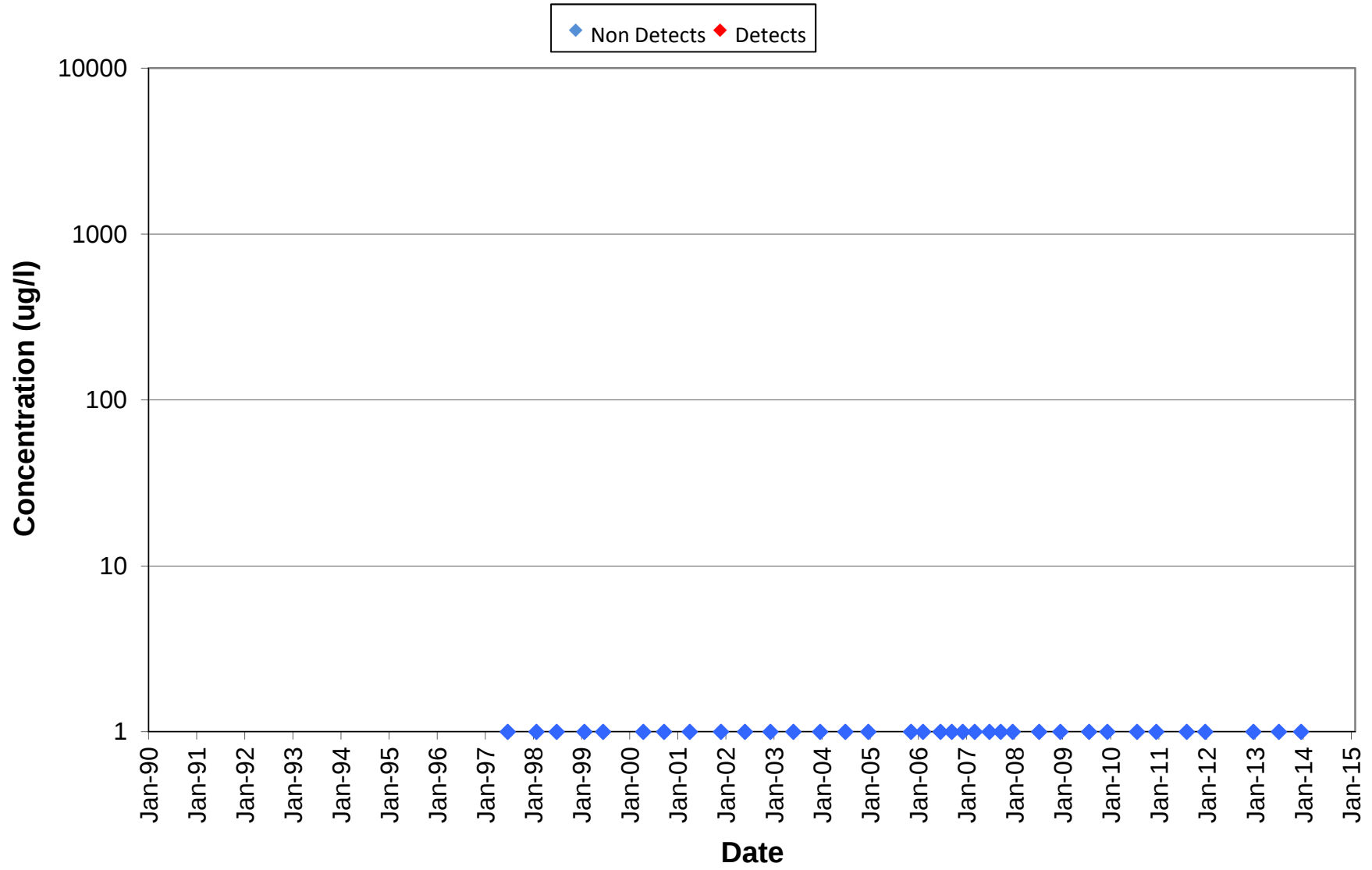
C-1 1,1 DCE Concentrations



C-1 cis 1,2 DCE Concentrations

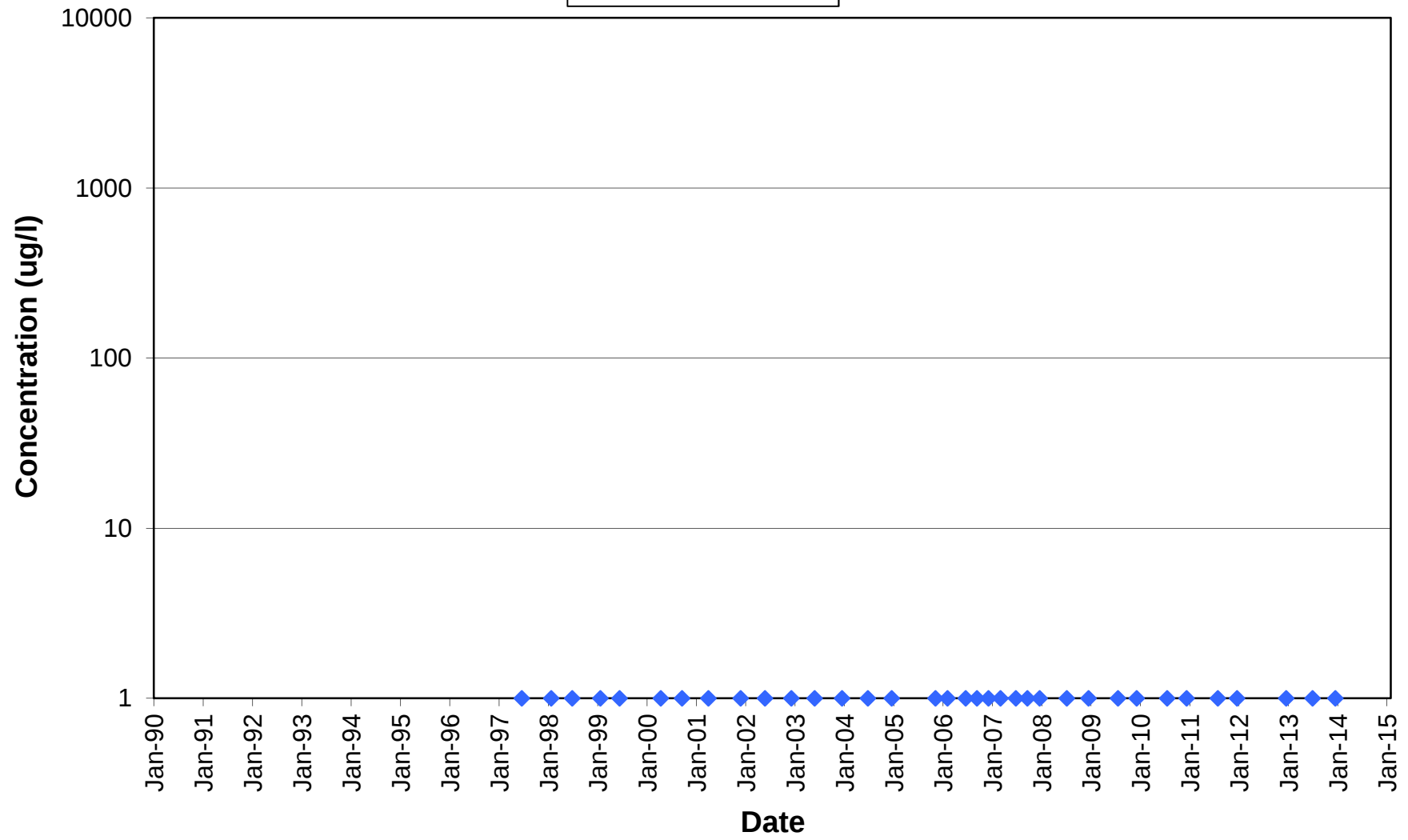


C-1 TCE Concentrations

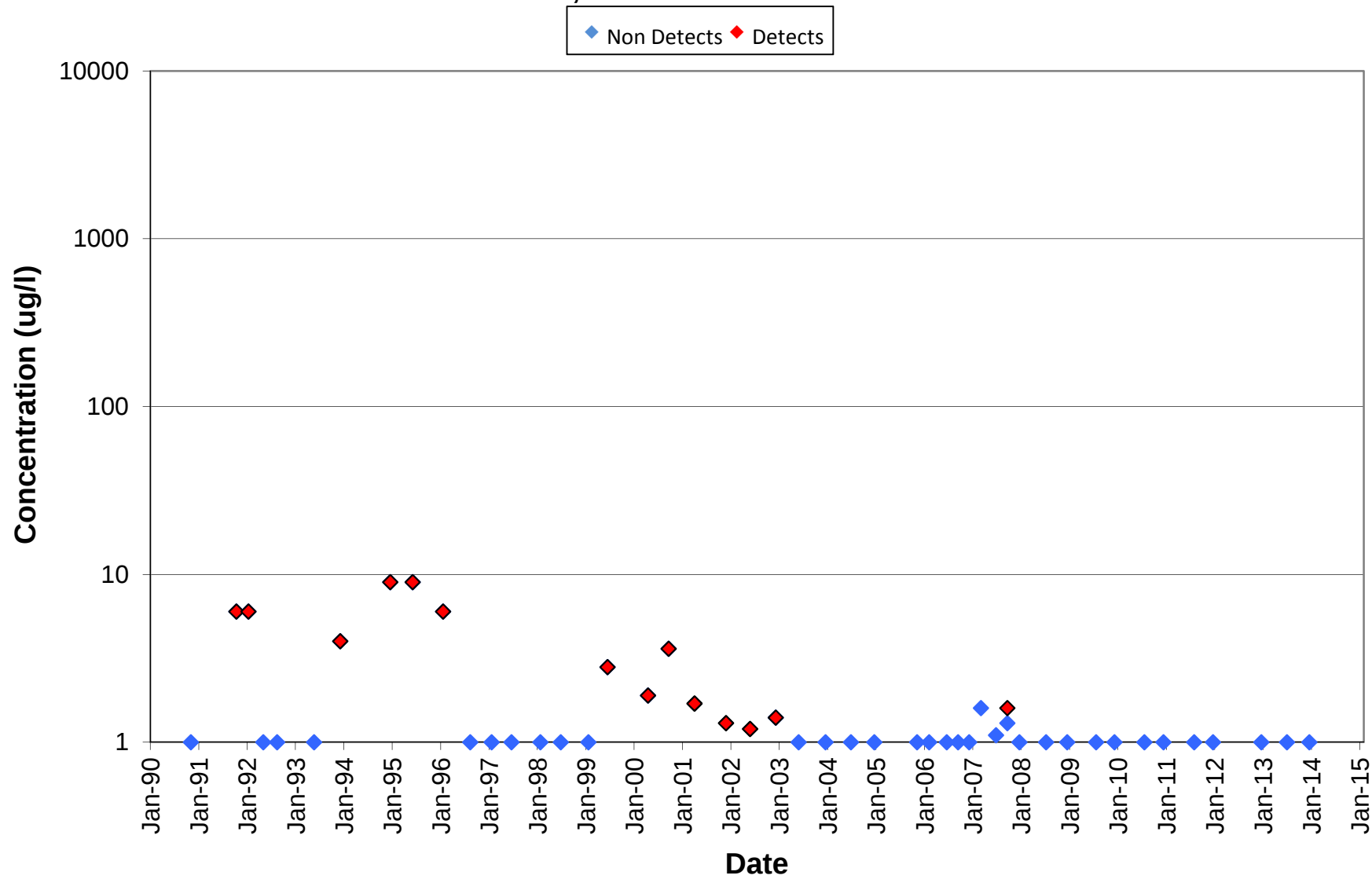


C-1 Vinyl Chloride

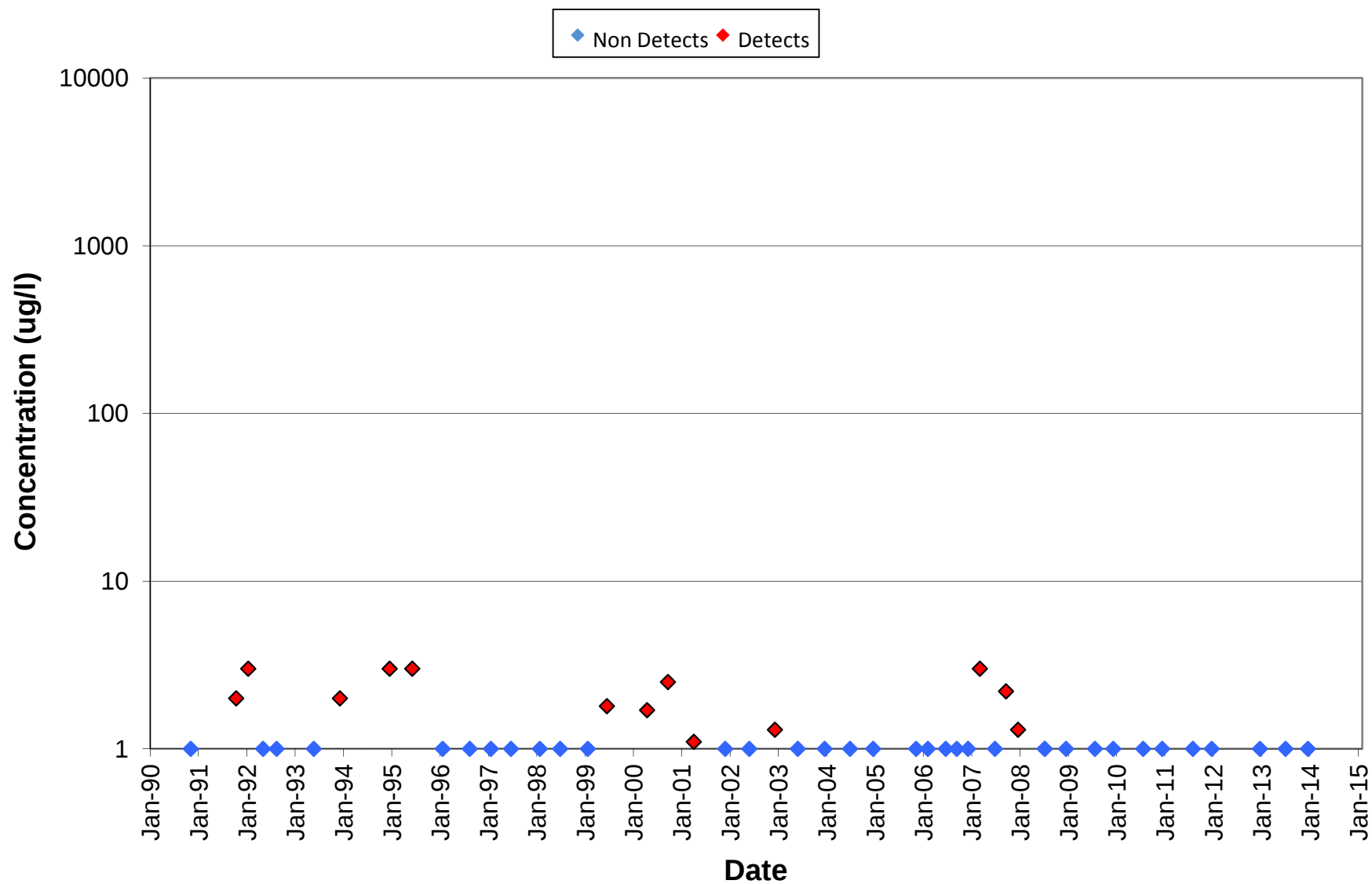
◆ Non Detects ◆ Detects



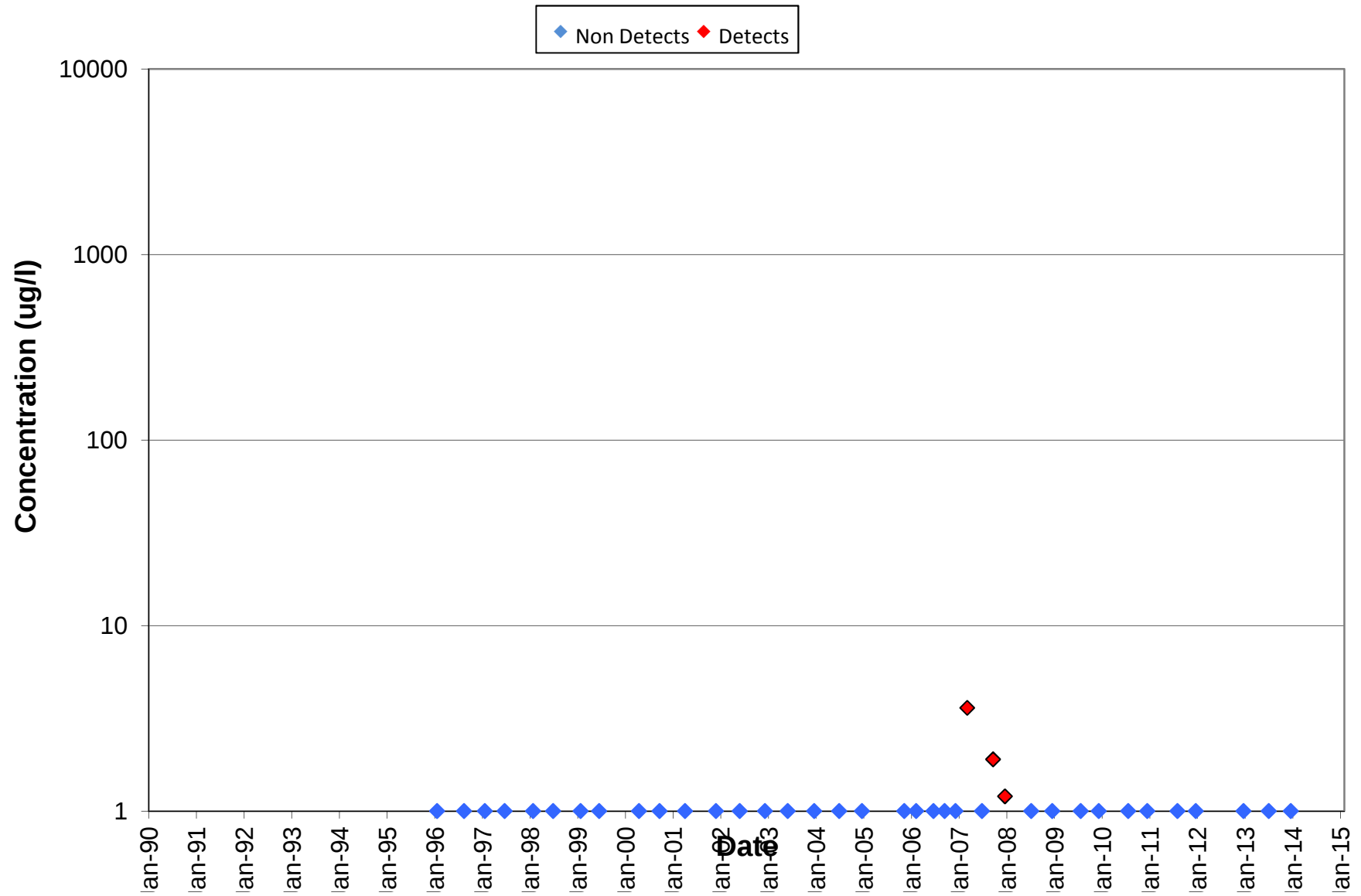
C-2 1,1 DCA Concentrations



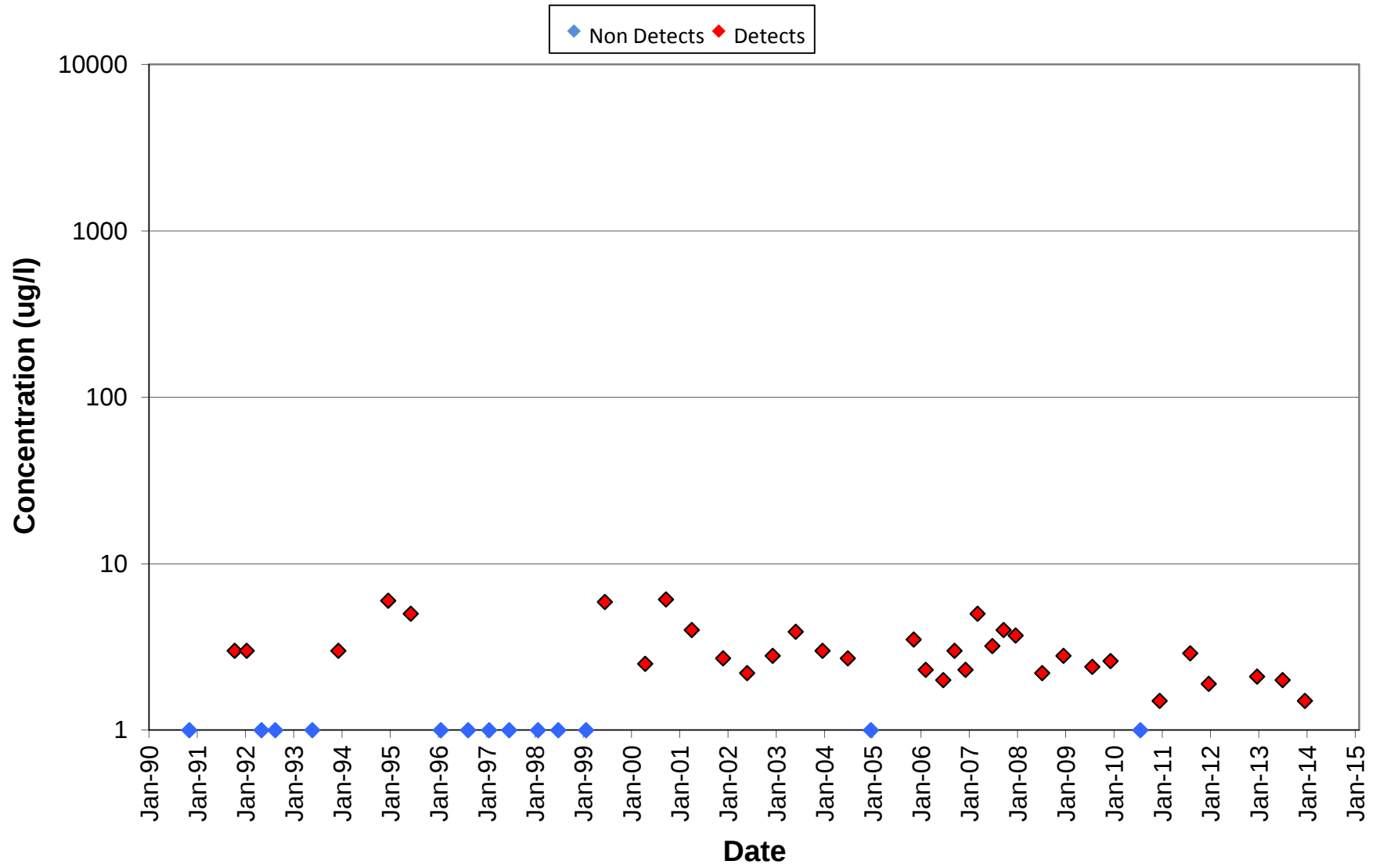
C-2 1,1 DCE Concentrations



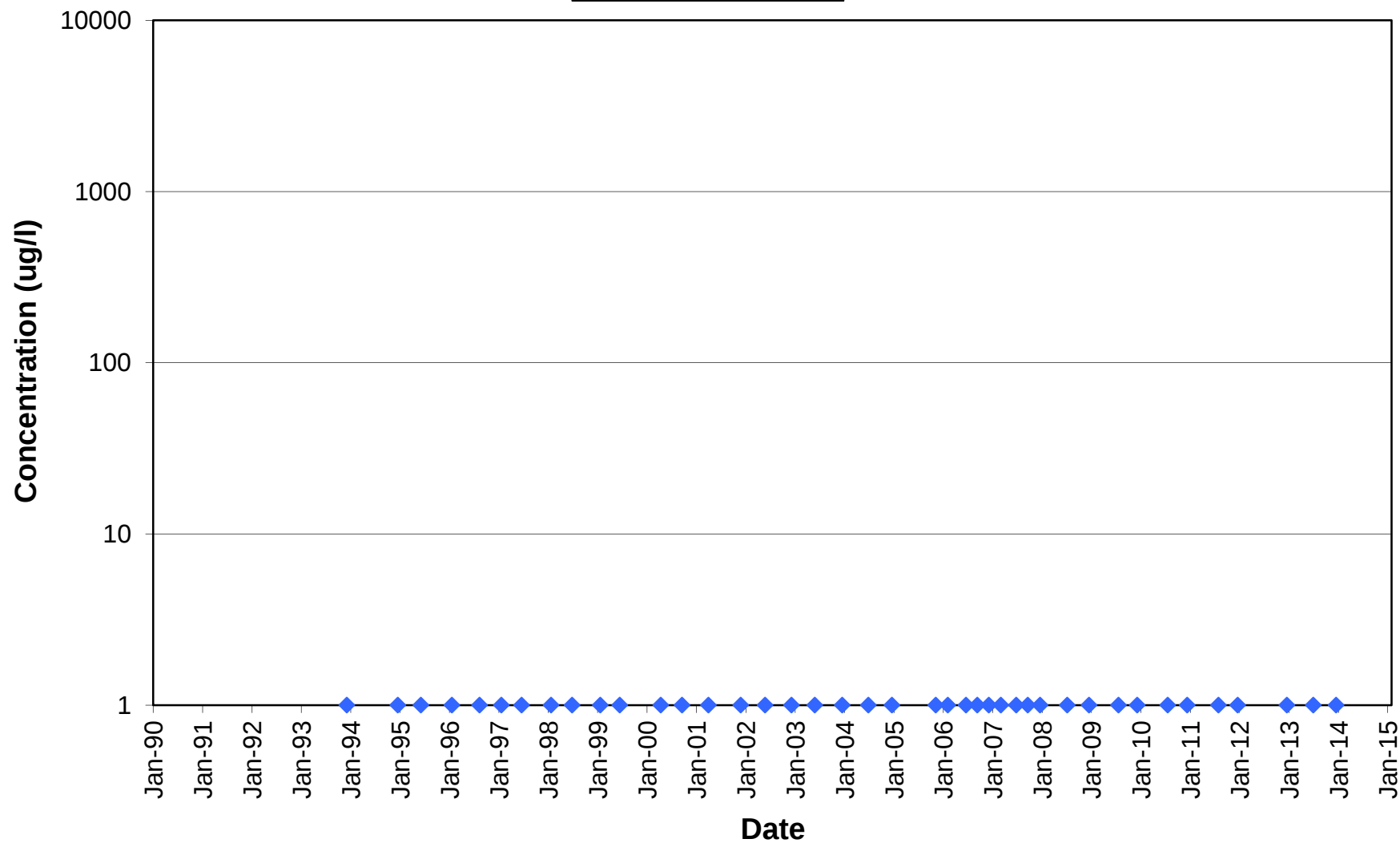
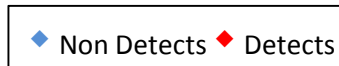
C-2 cis 1,2 DCE Concentrations



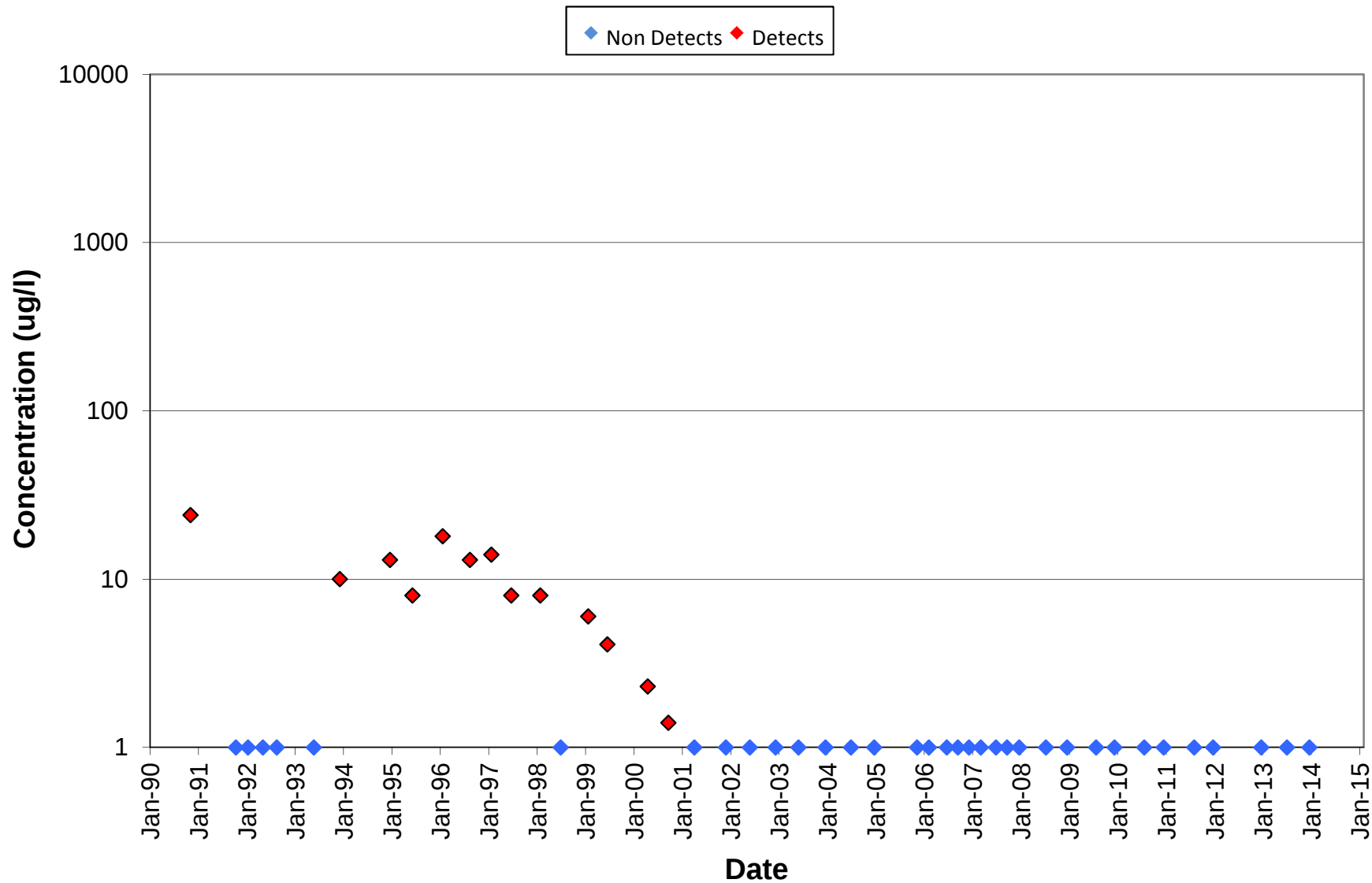
C-2 TCE Concentrations



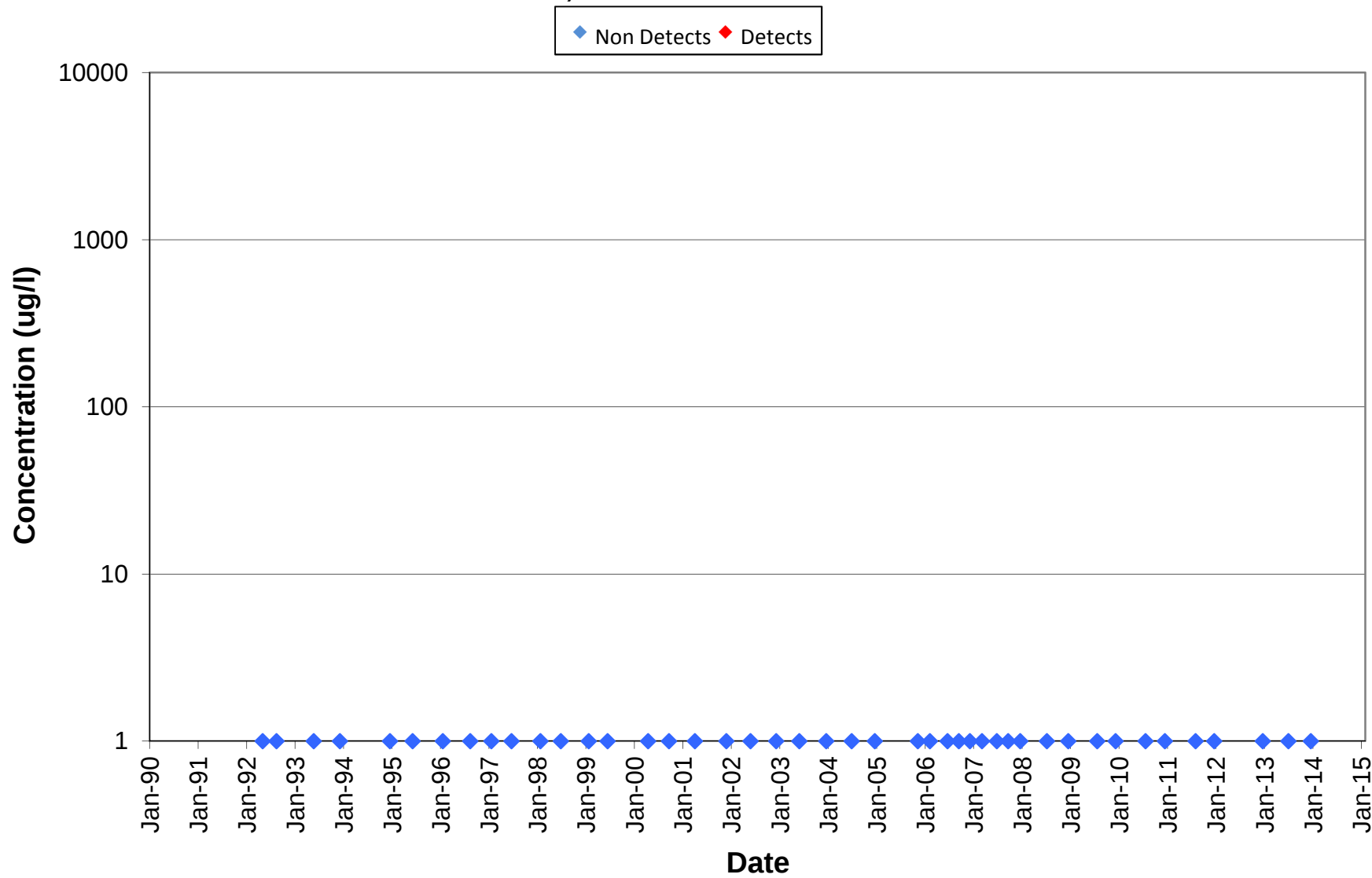
C-2 Vinyl Chloride



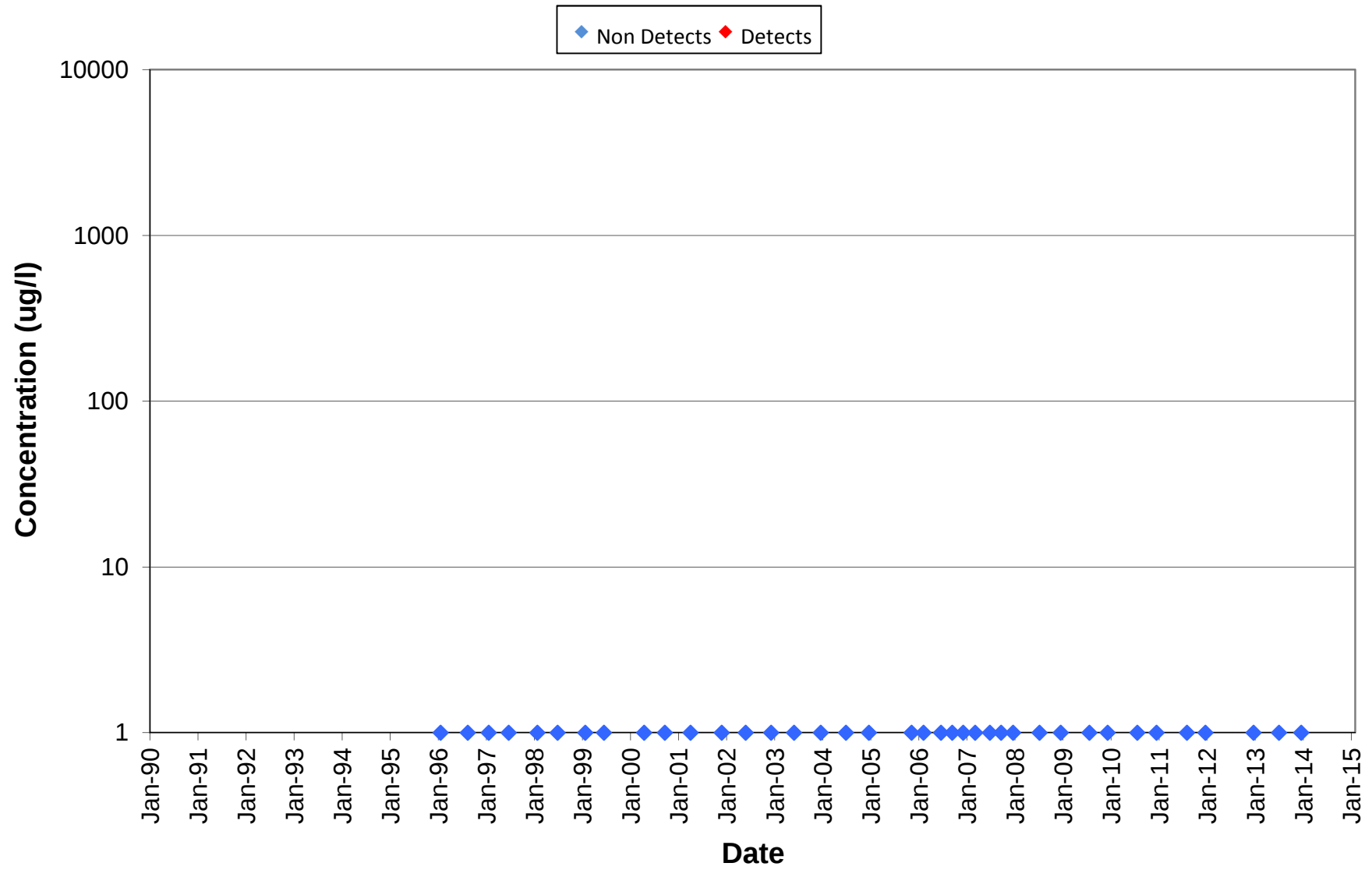
C-3 1,1 DCA Concentrations



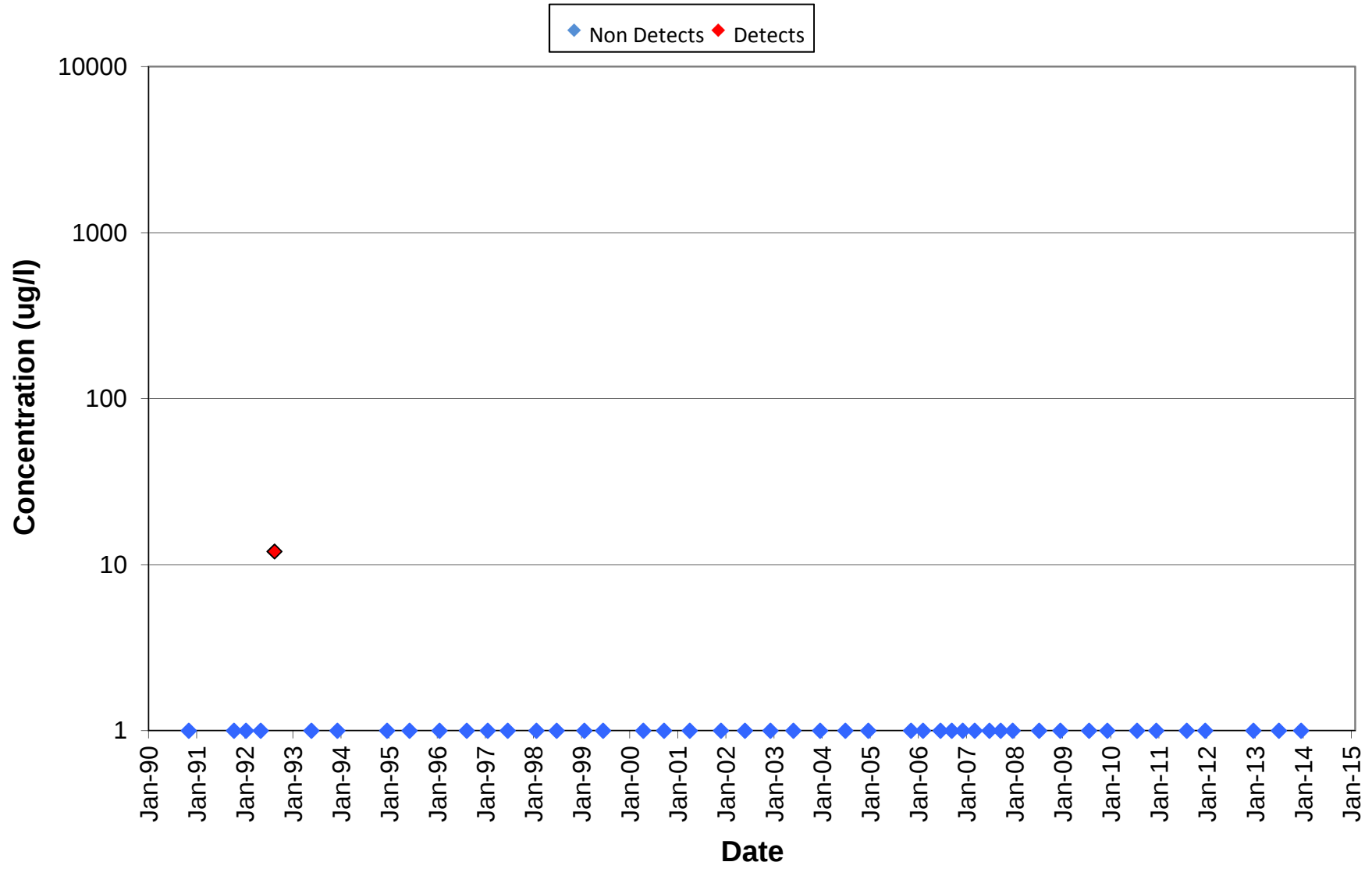
C-3 1,1 DCE Concentrations



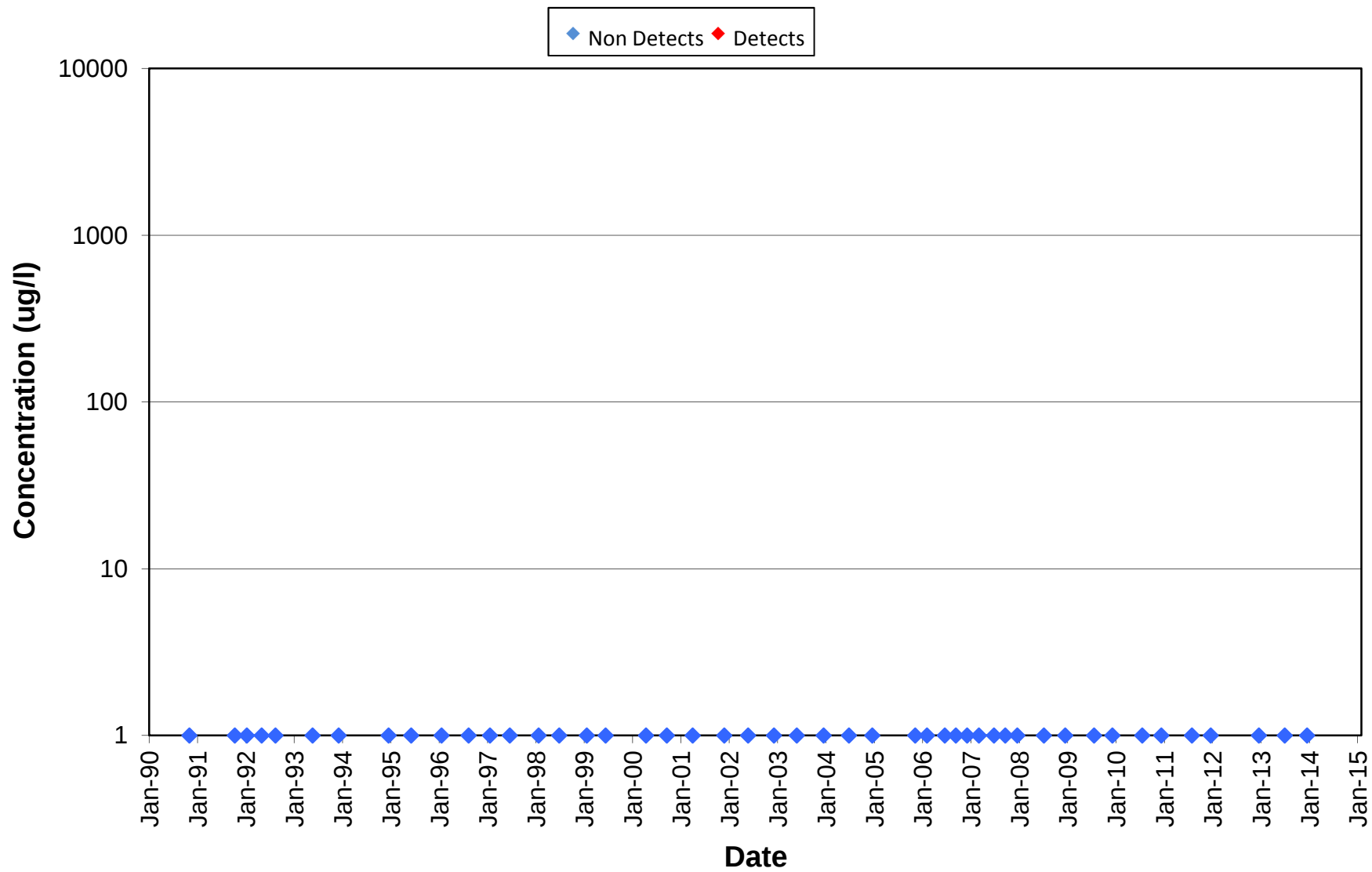
C-3 cis 1,2 DCE Concentrations



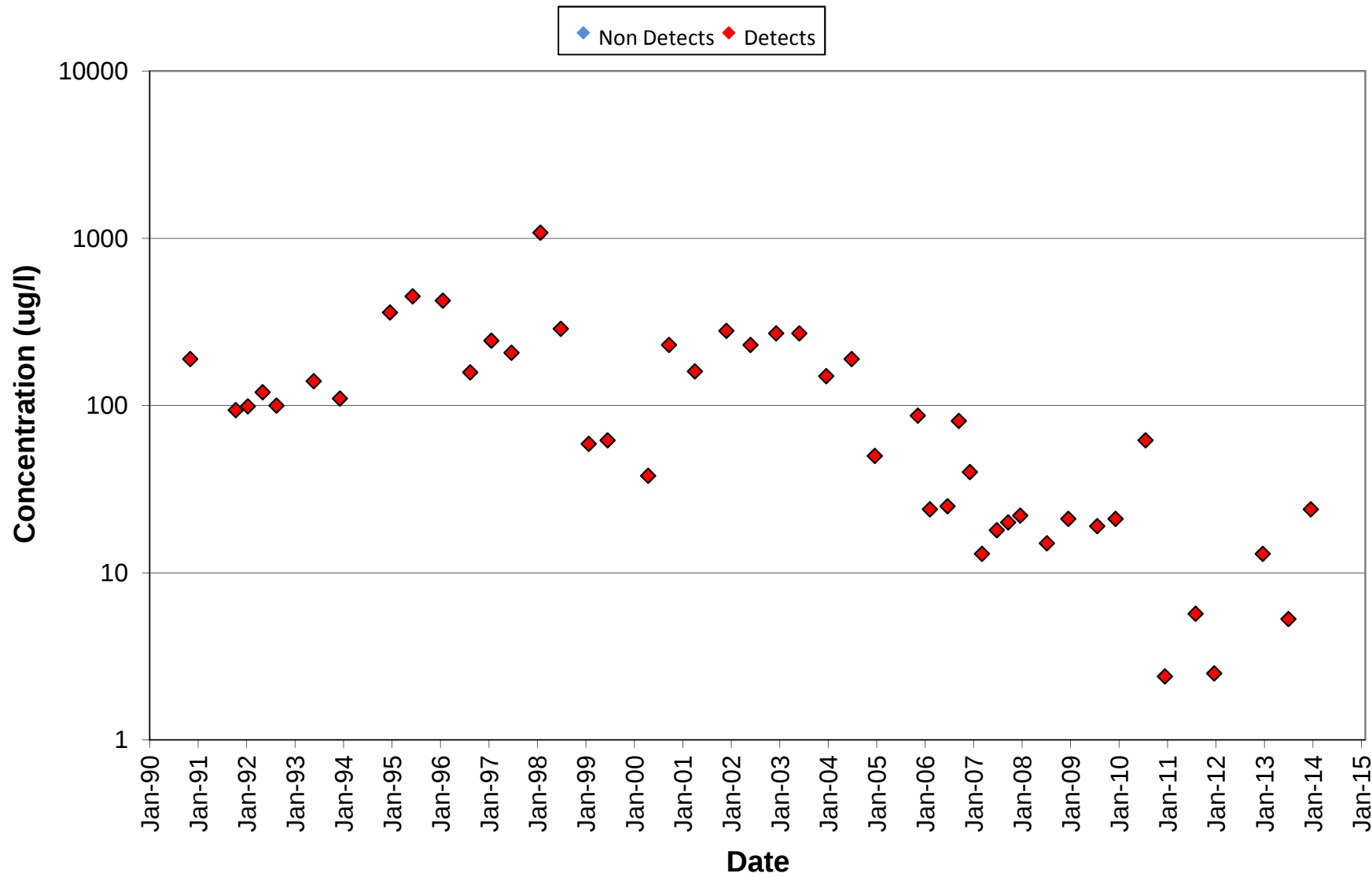
C-3 TCE Concentrations



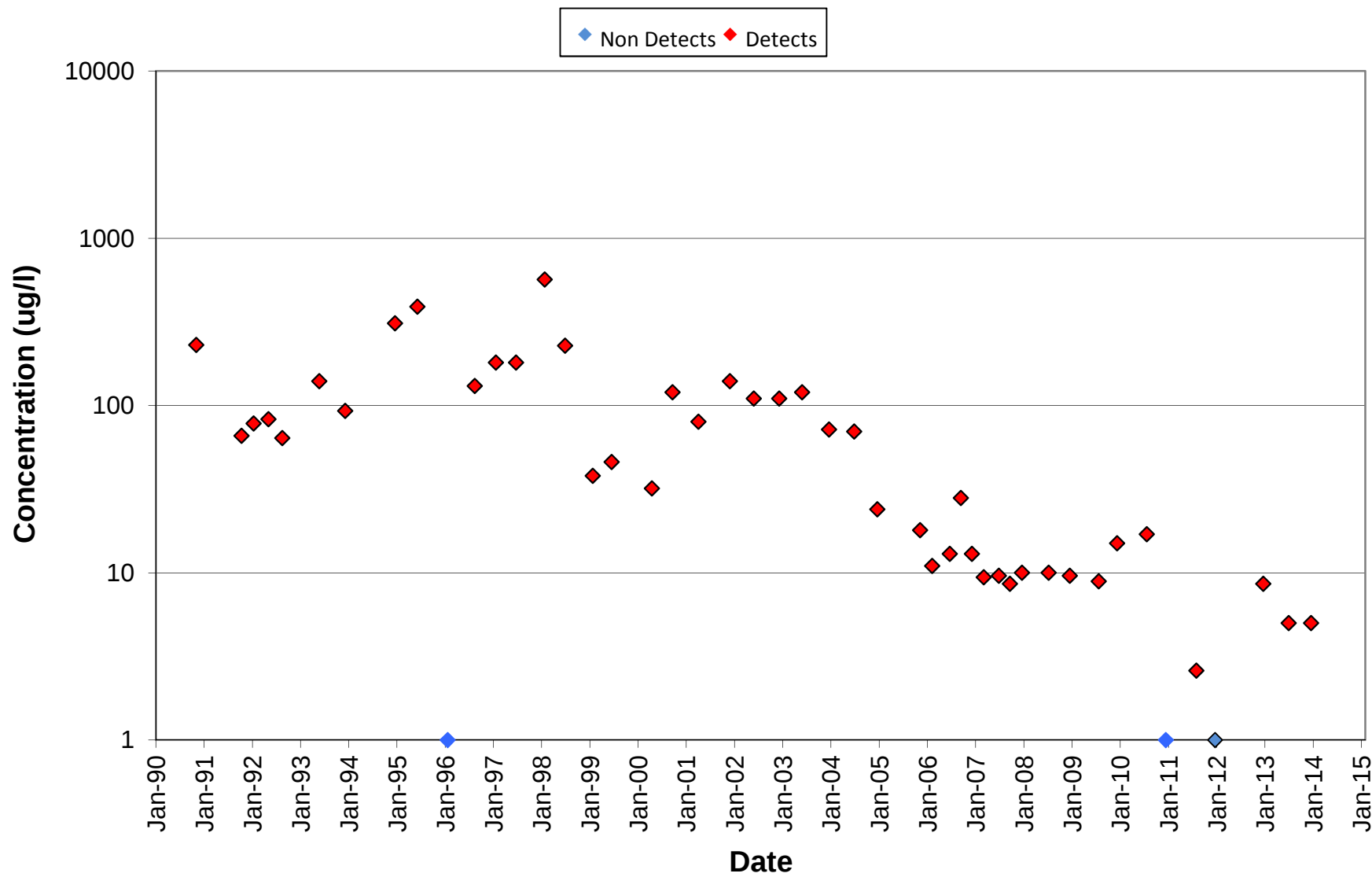
C-3 Vinyl Chloride



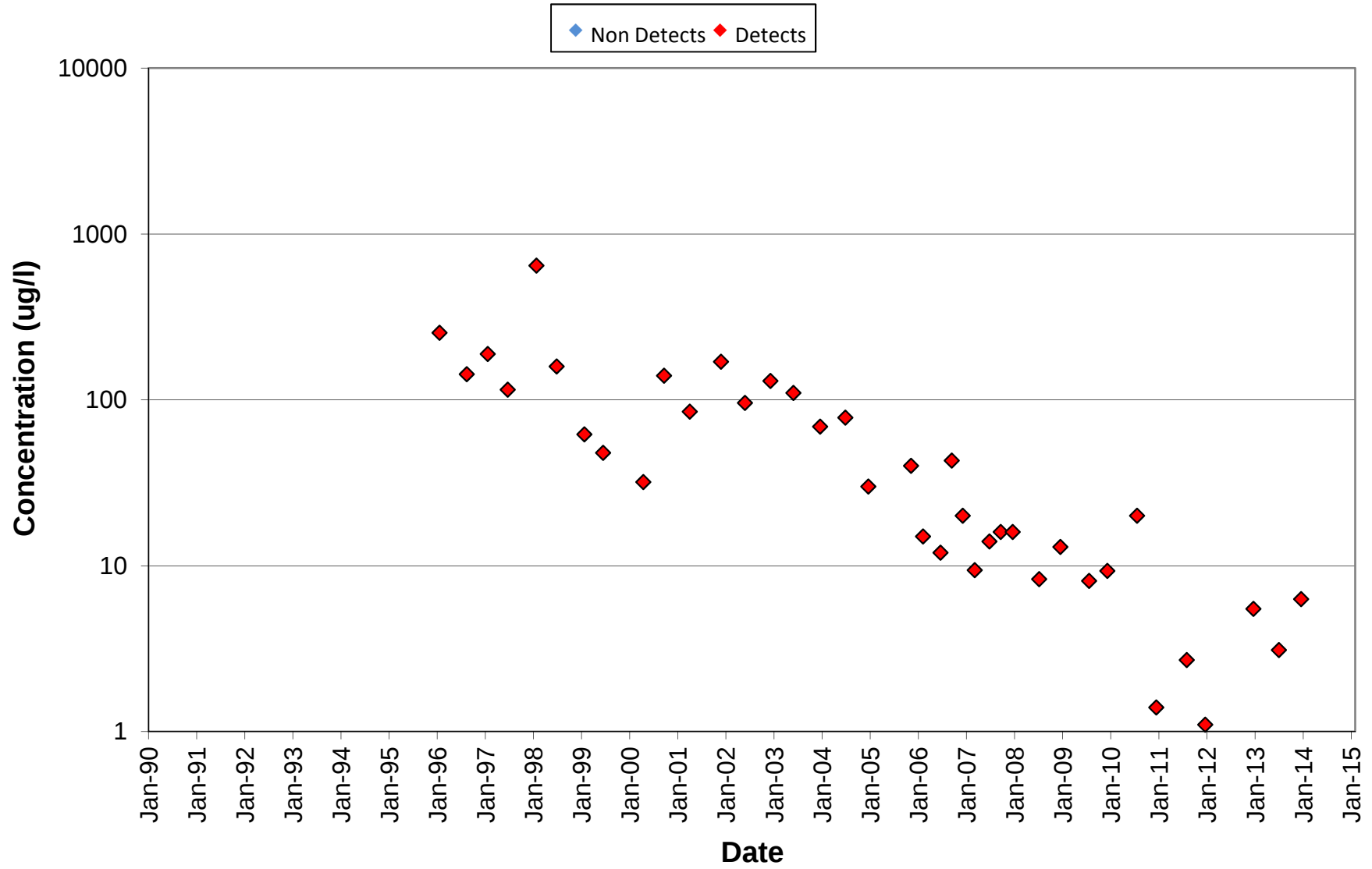
C-4 1,1 DCA Concentrations



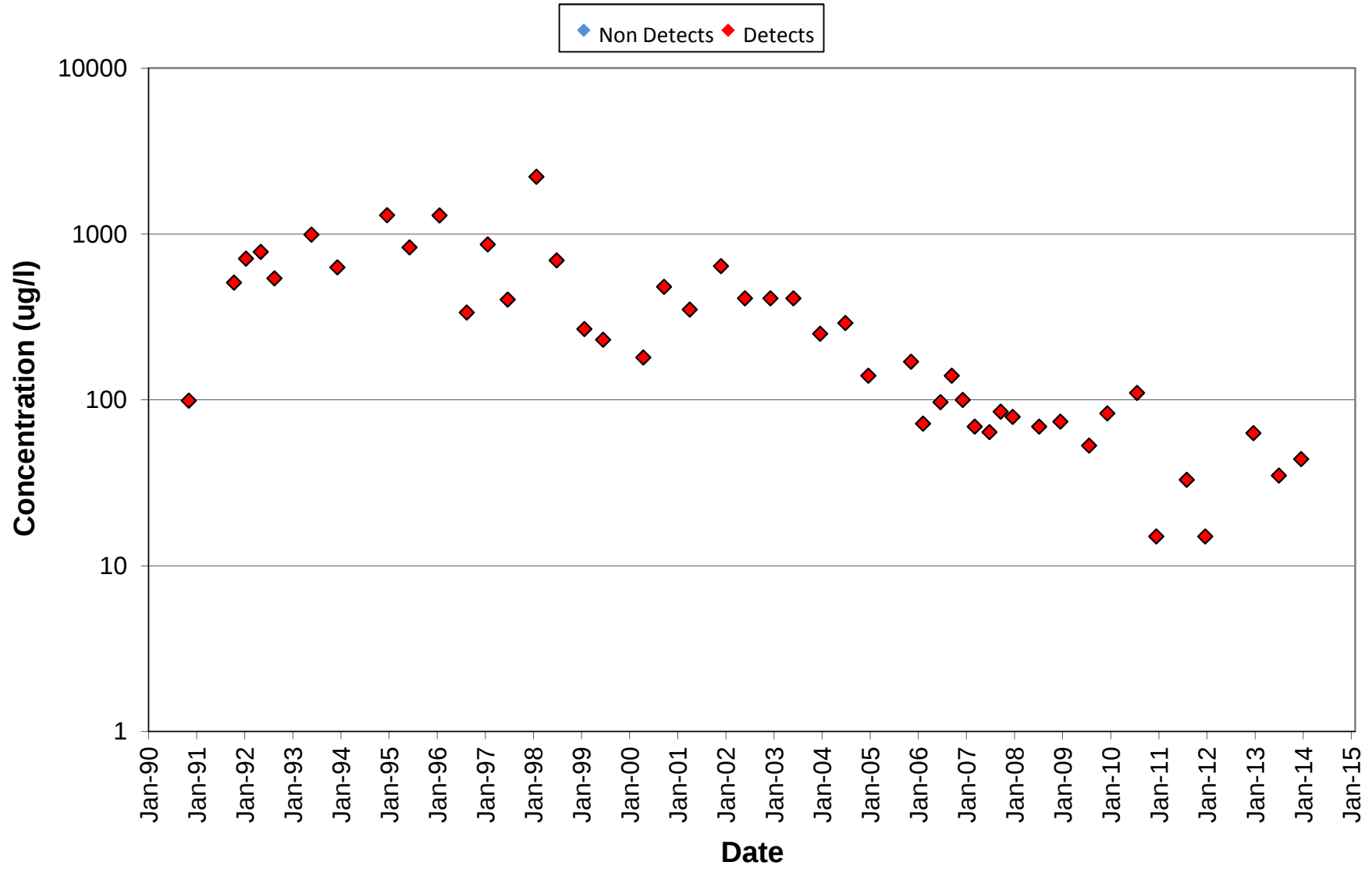
C-4 1,1 DCE Concentrations



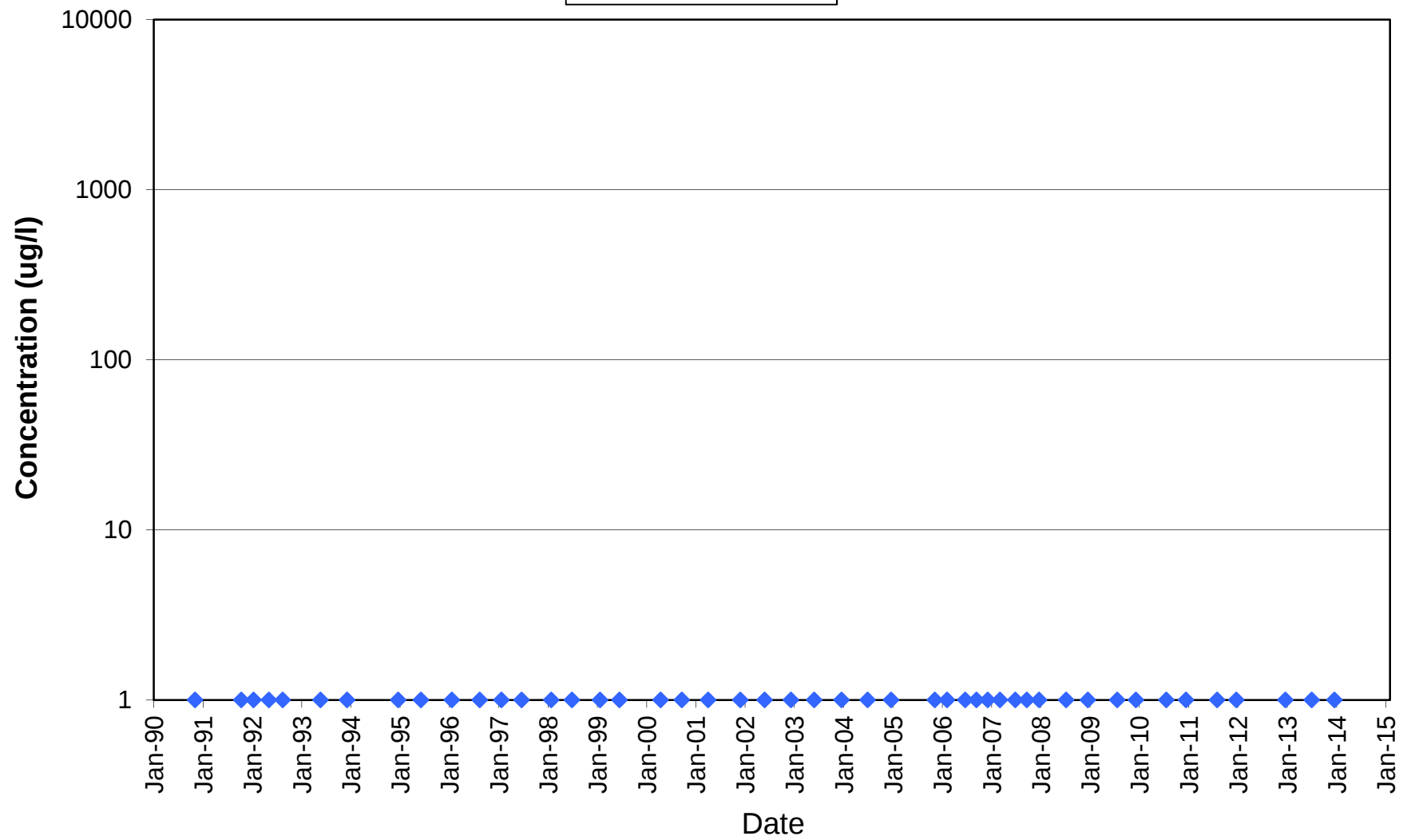
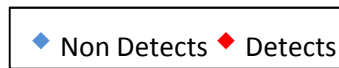
C-4 cis 1,2 DCE Concentrations



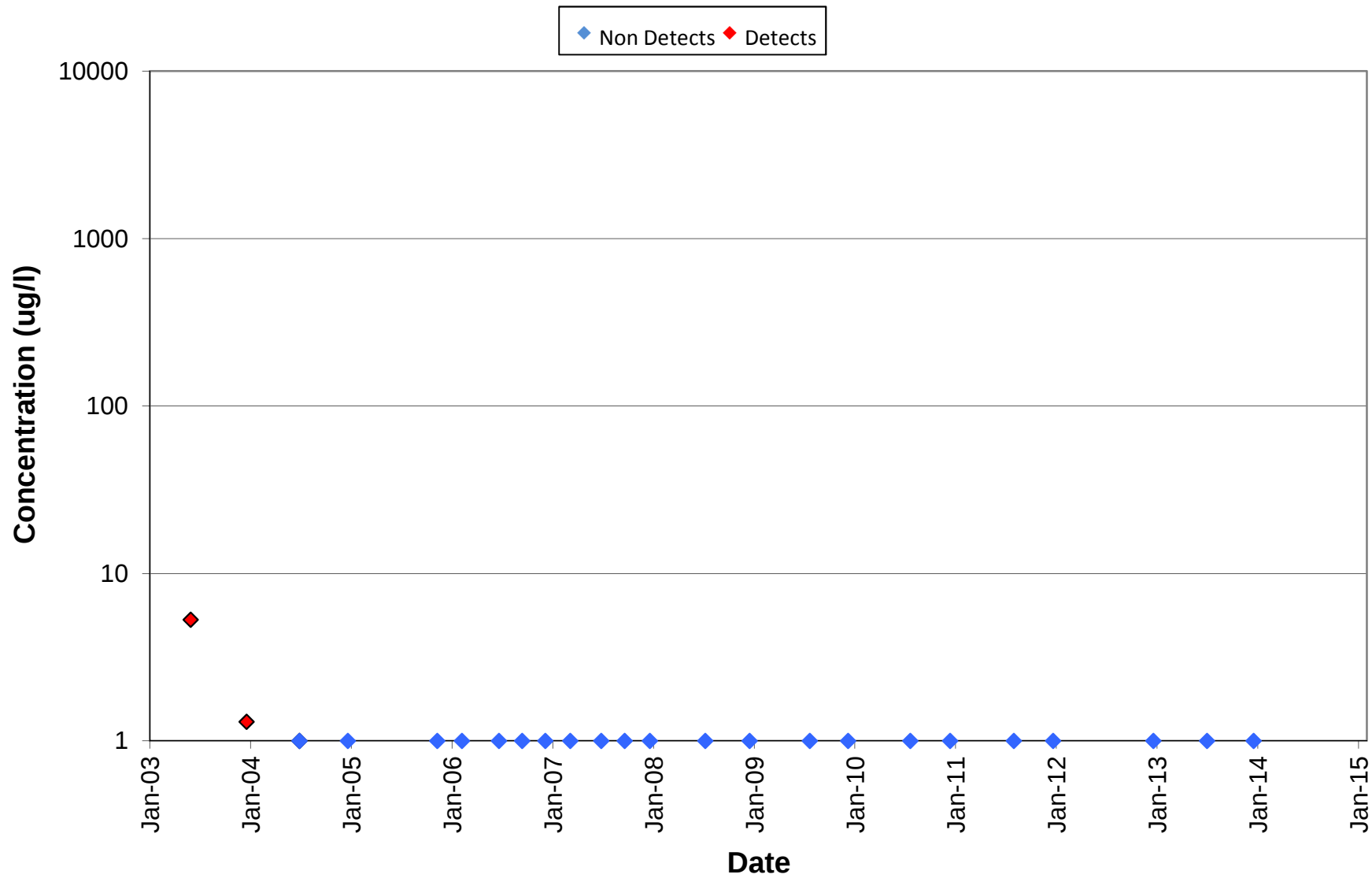
C-4 TCE Concentrations



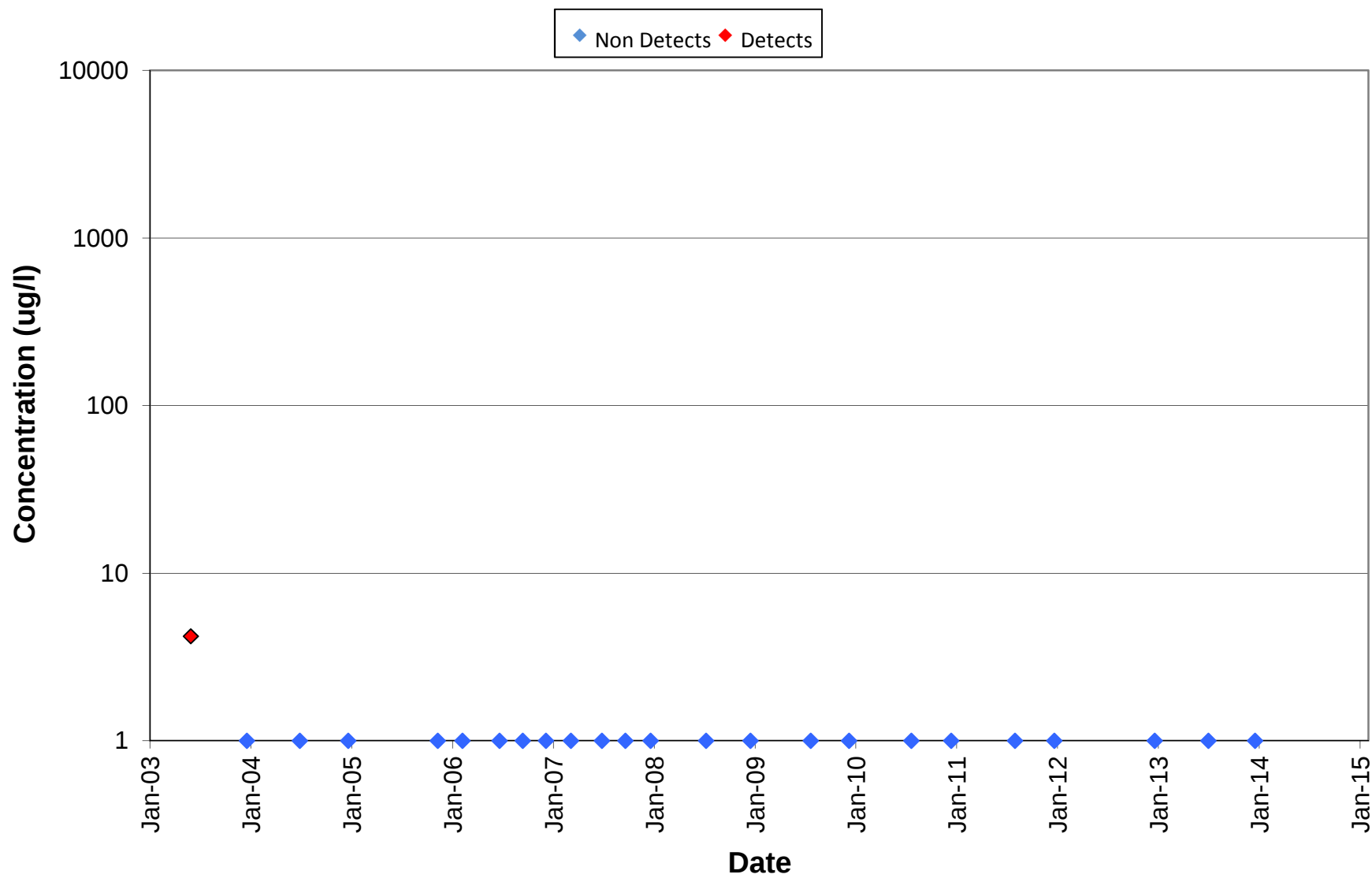
C-4 Vinyl Chloride



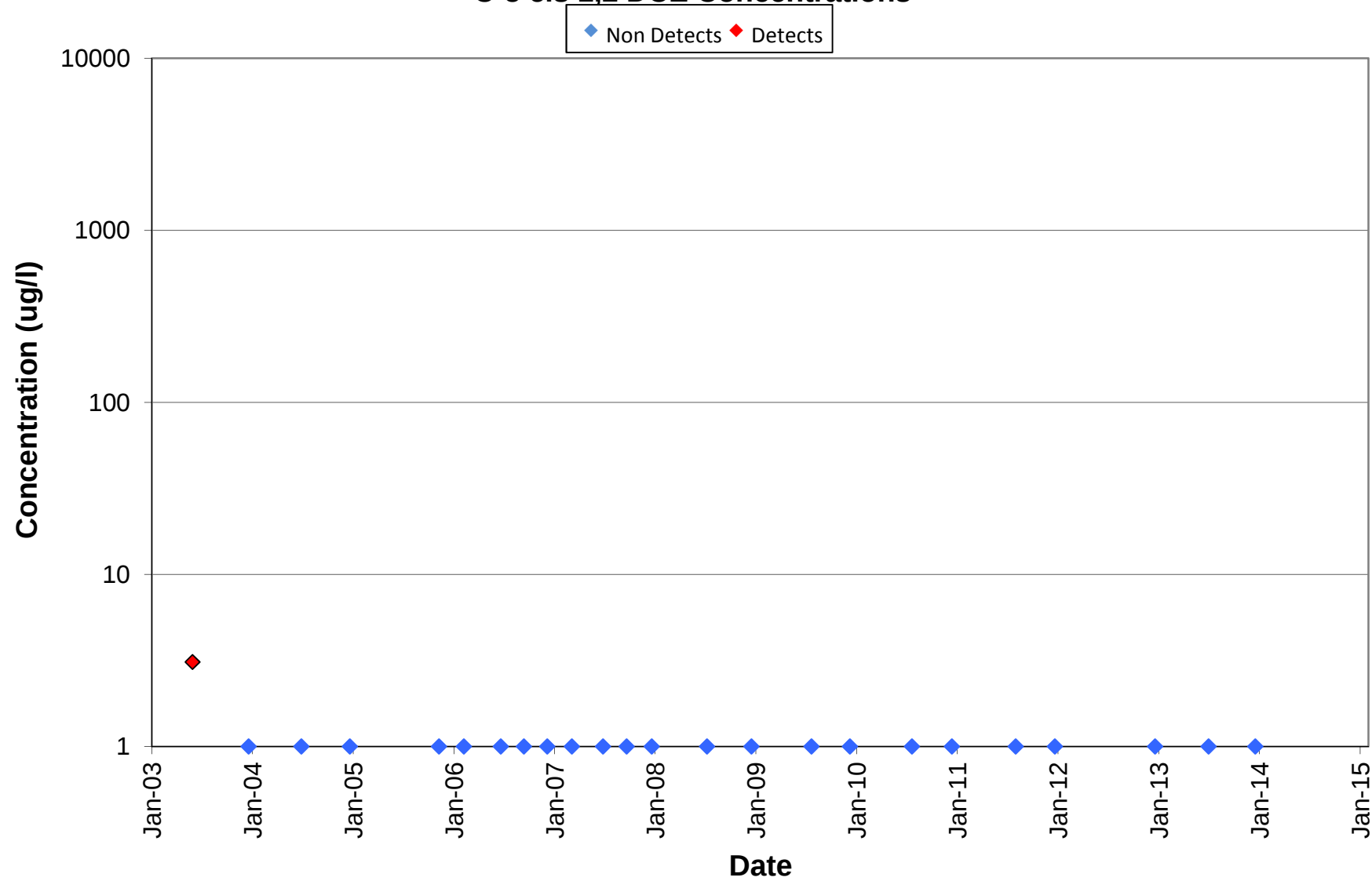
C-5 1,1 DCA Concentrations



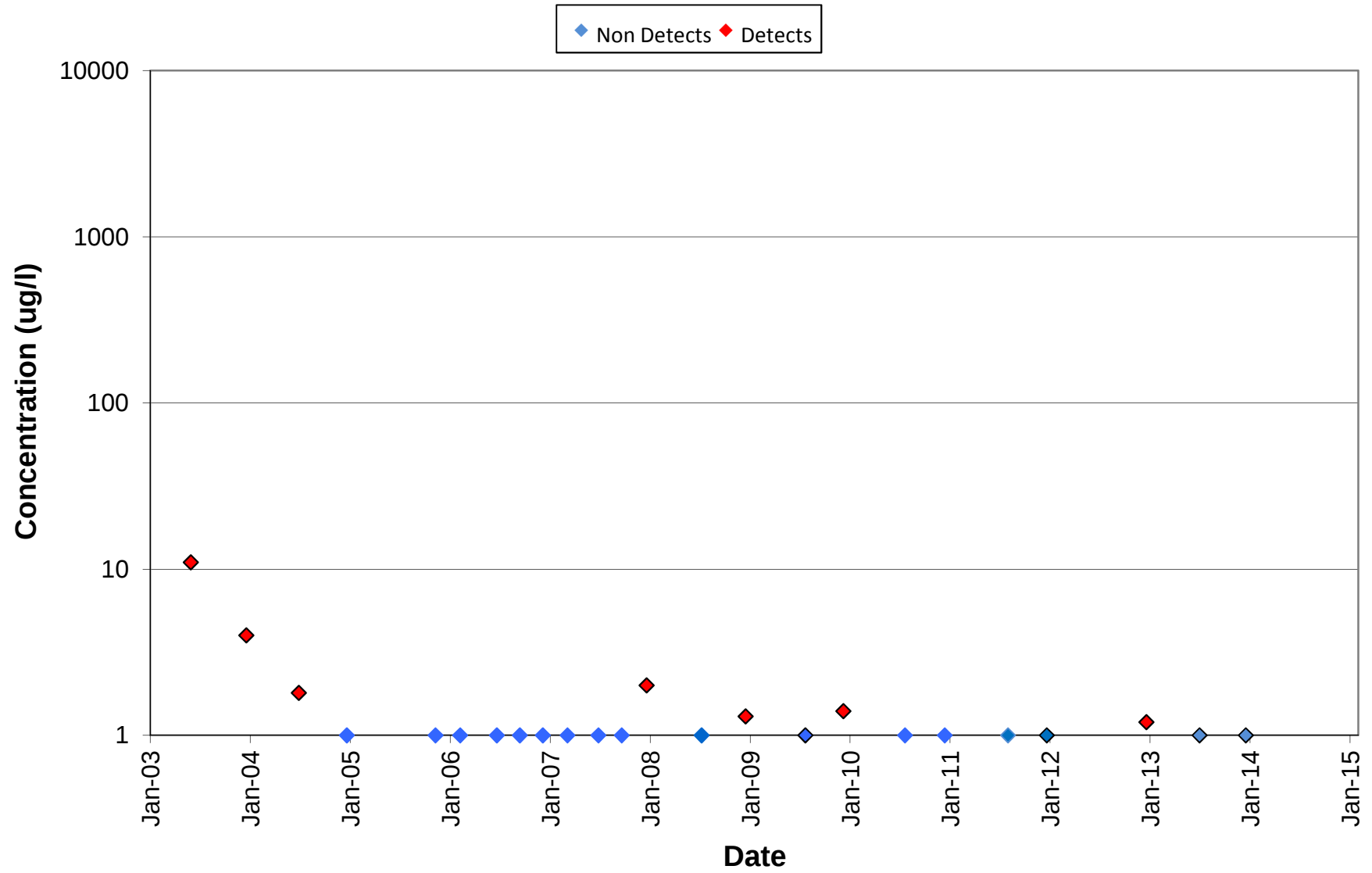
C-5 1,1 DCE Concentrations



C-5 cis 1,2 DCE Concentrations

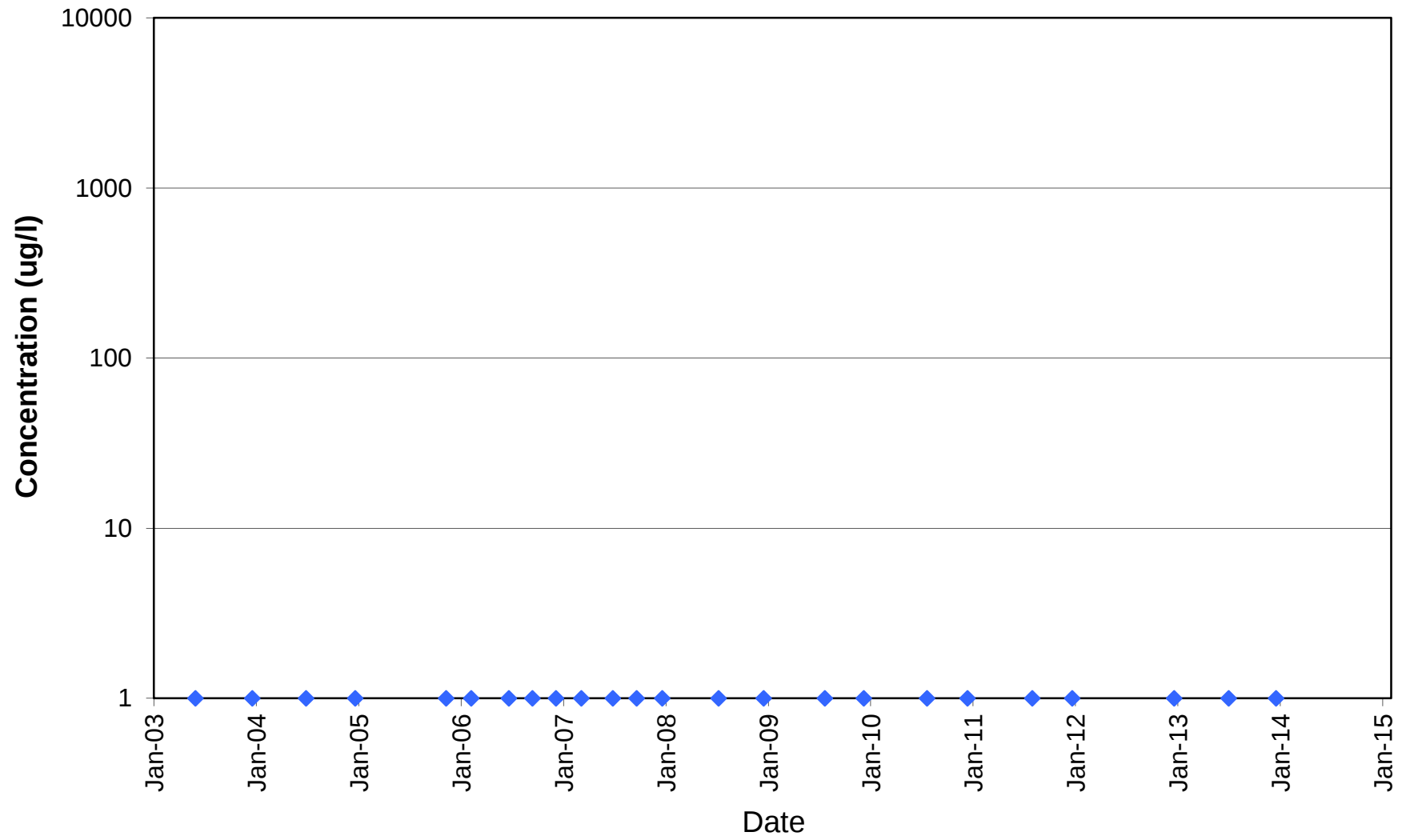


C-5 TCE Concentrations

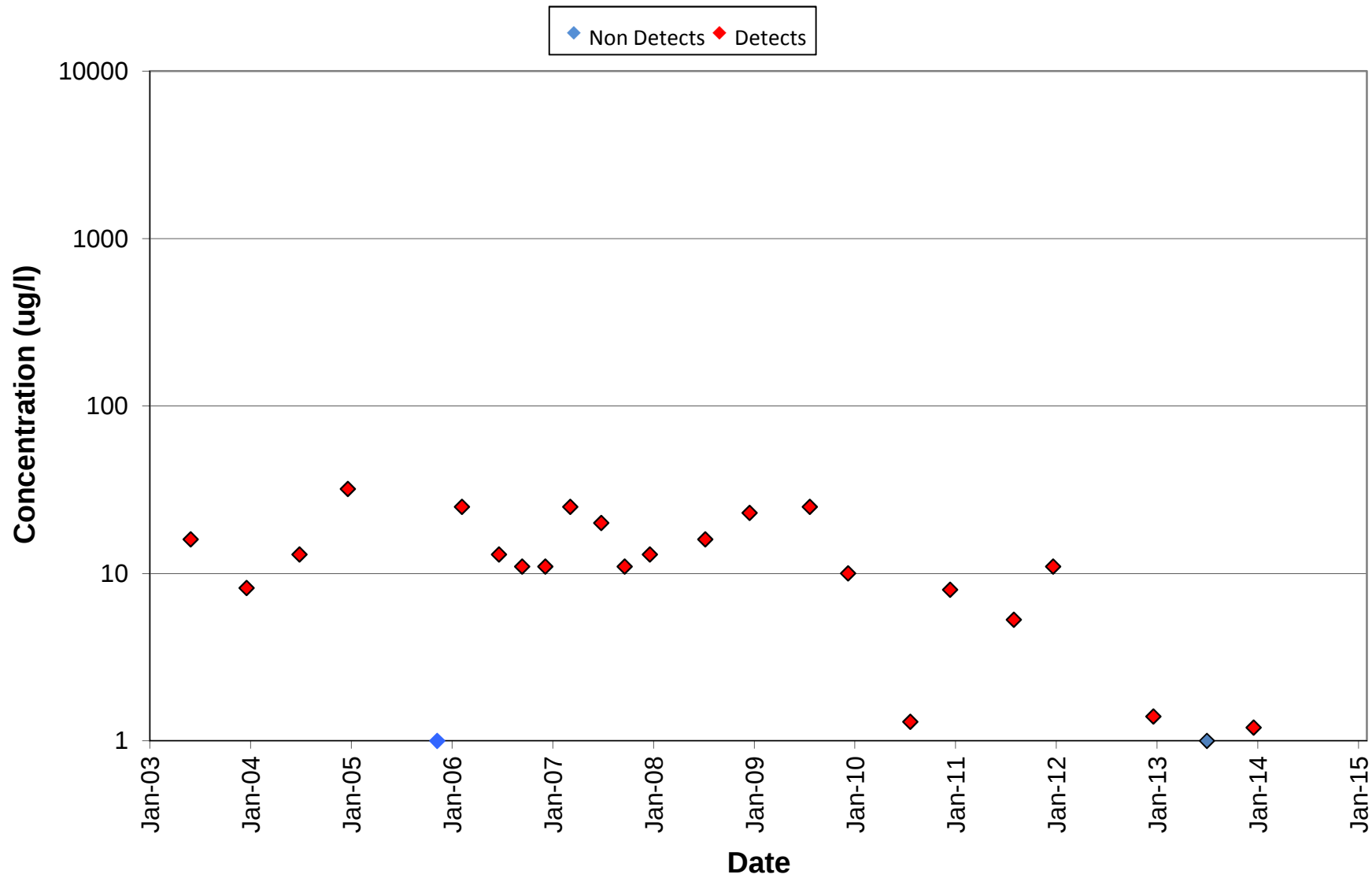


C-5 Vinyl Chloride

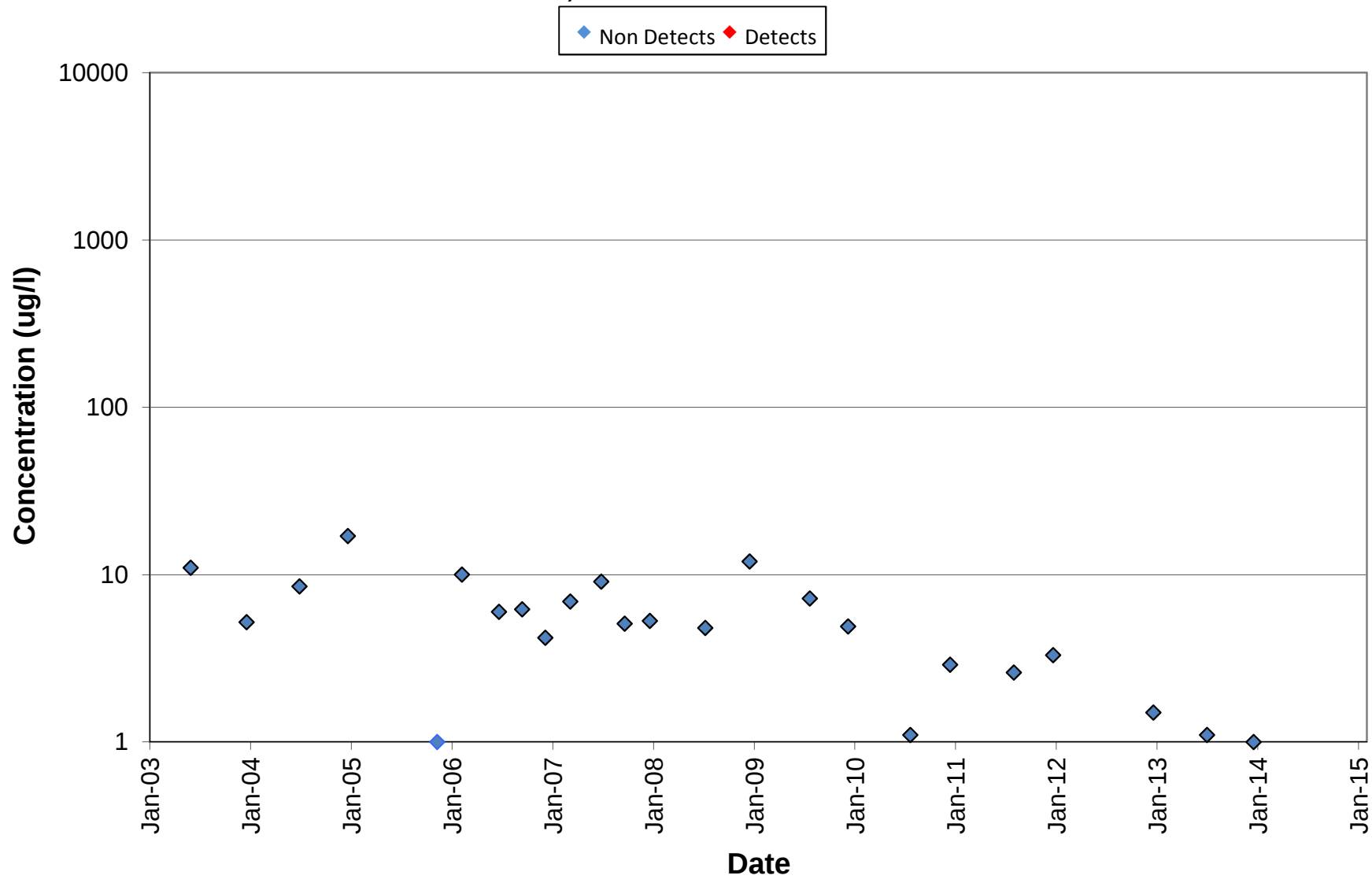
◆ Non Detects ◆ Detects



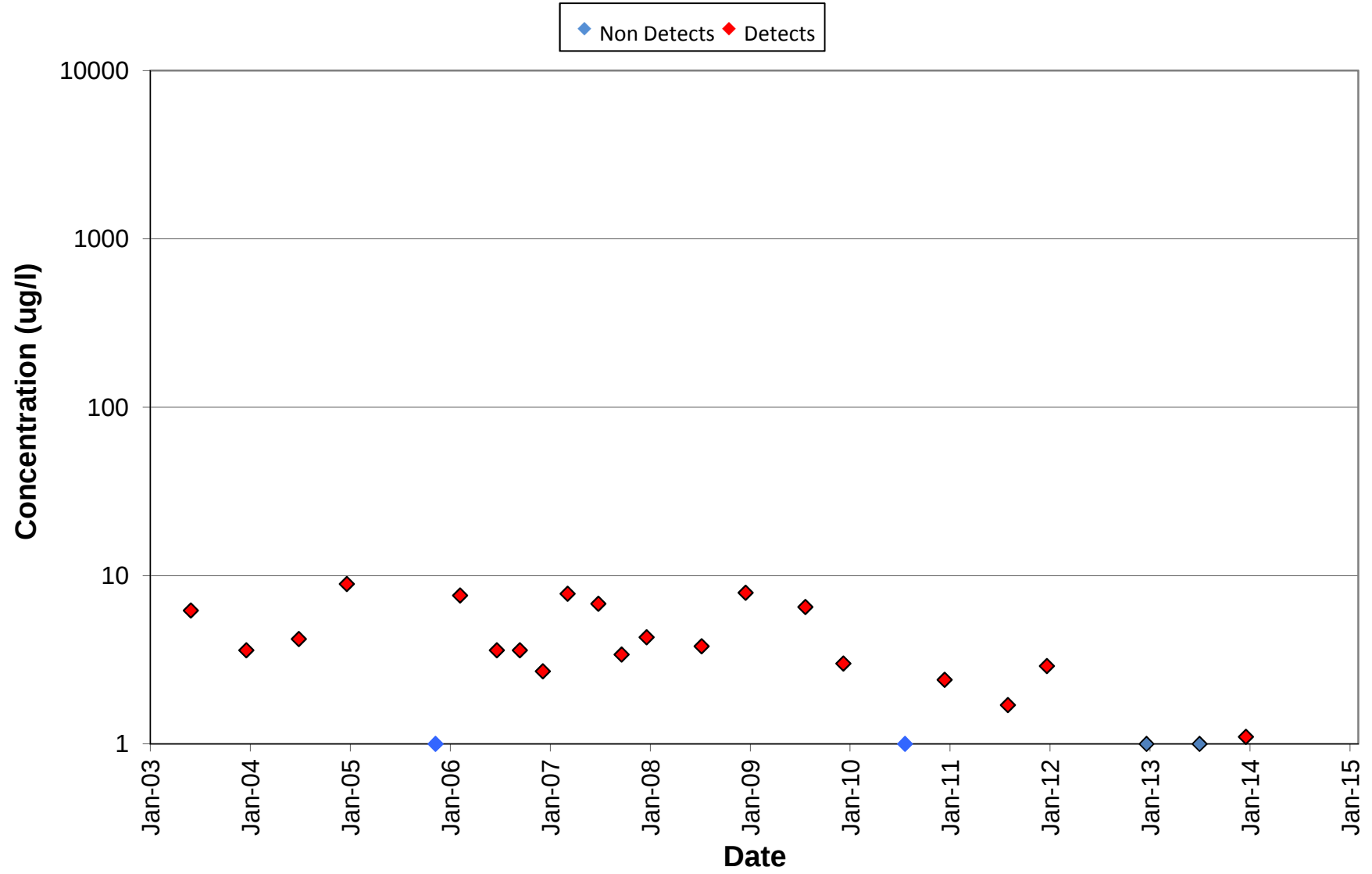
C-6 1,1 DCA Concentrations



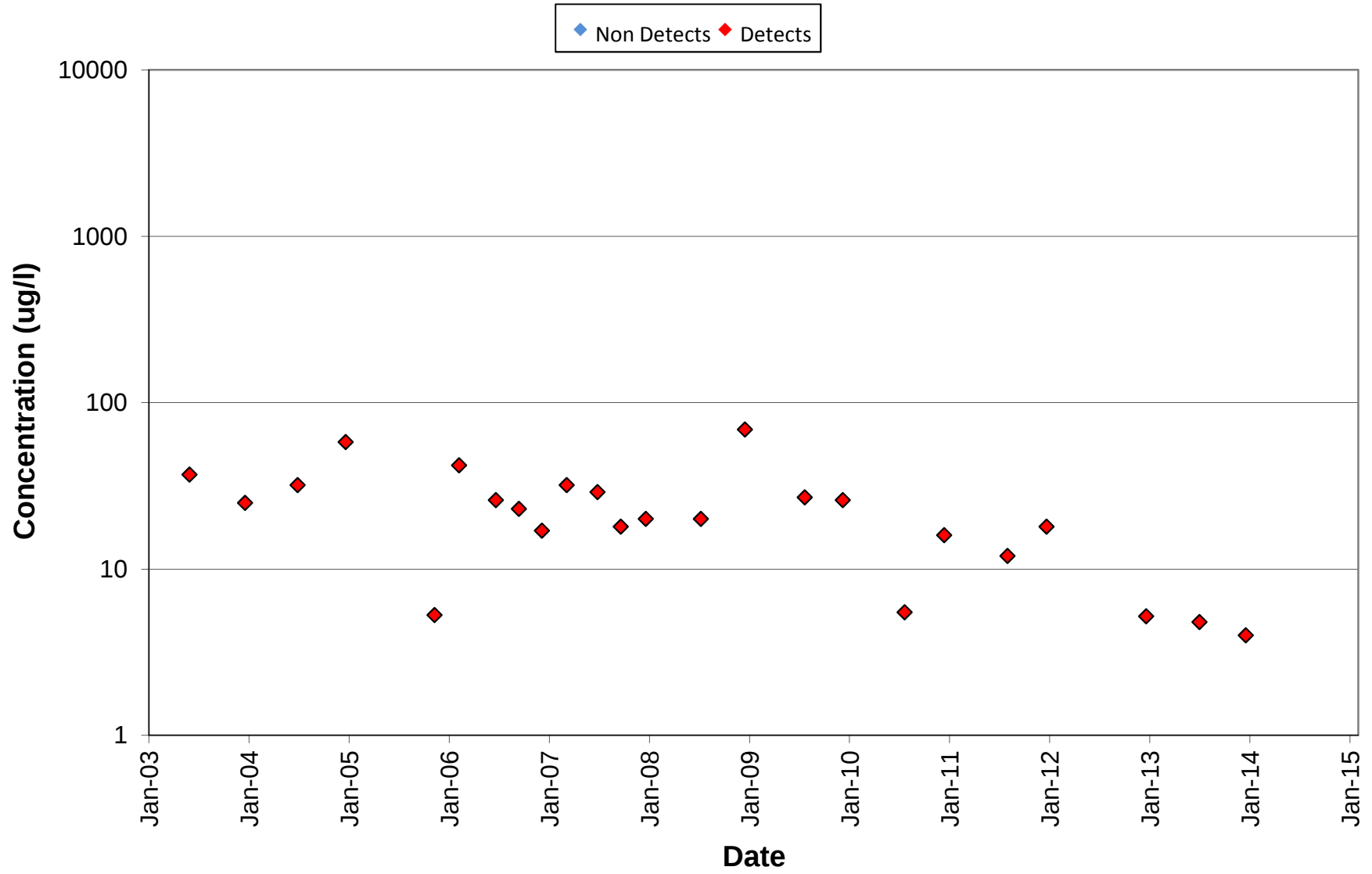
C-6 1,1 DCE Concentrations



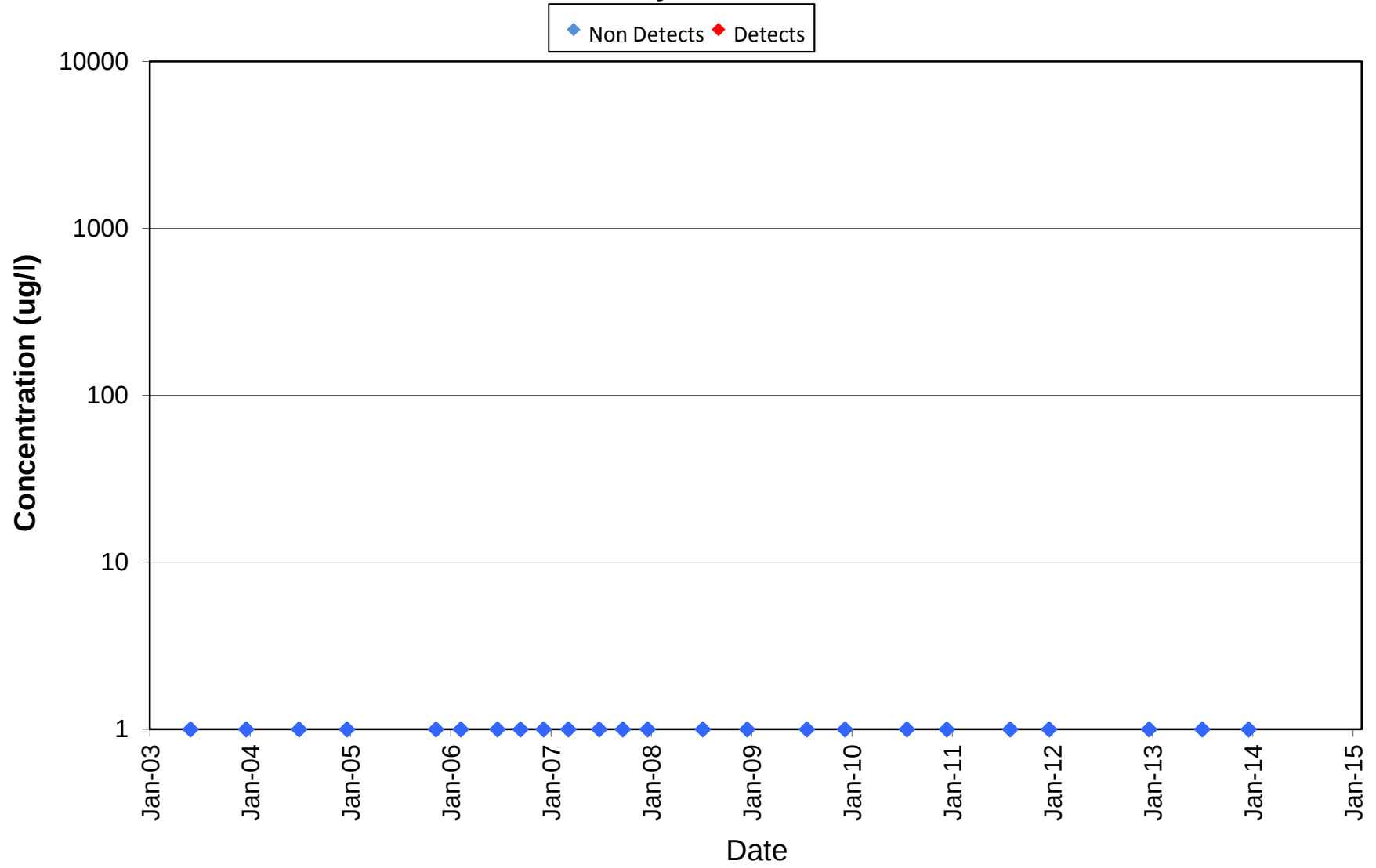
C-6 cis 1,2 DCE Concentrations



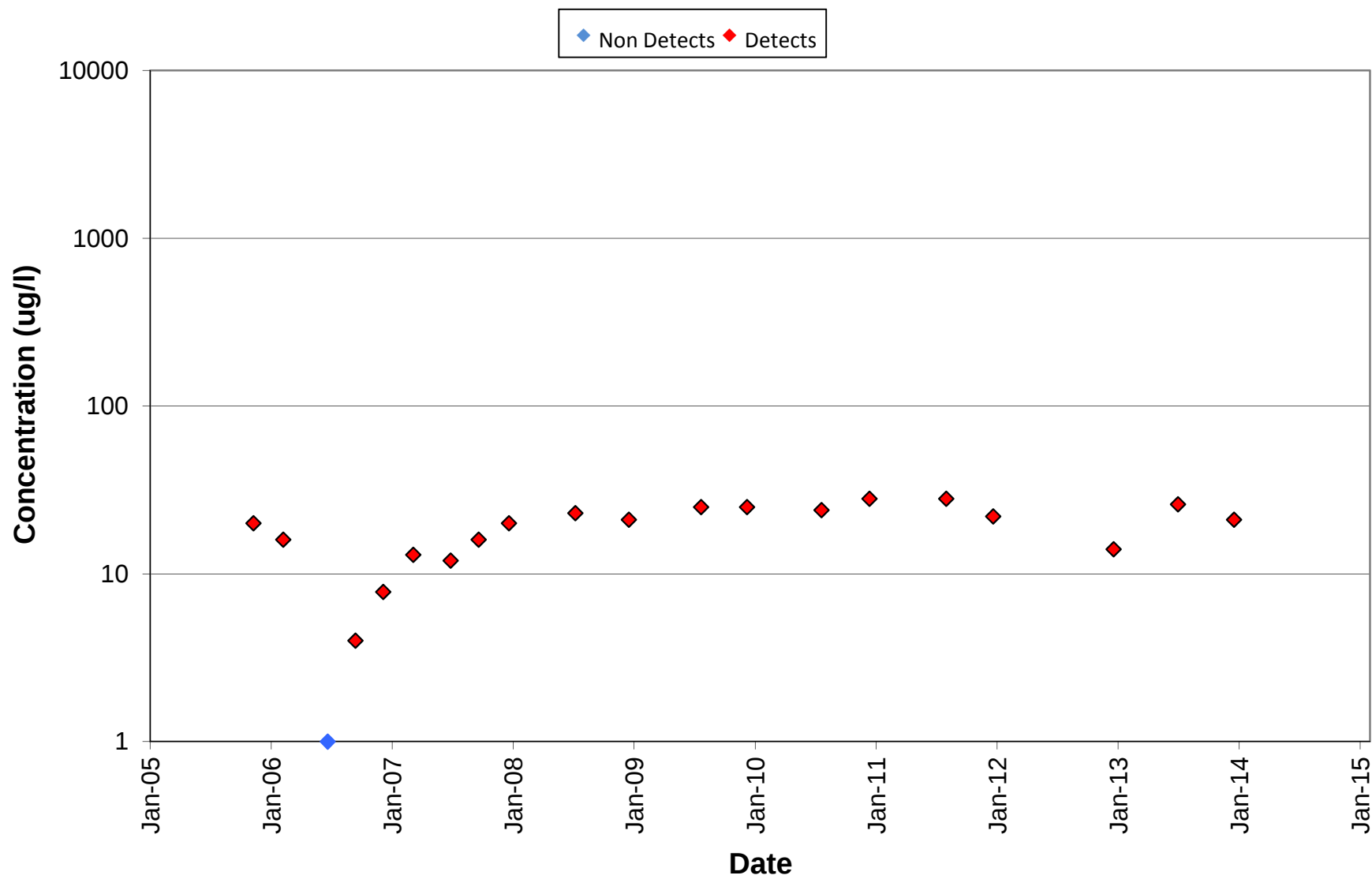
C-6 TCE Concentrations



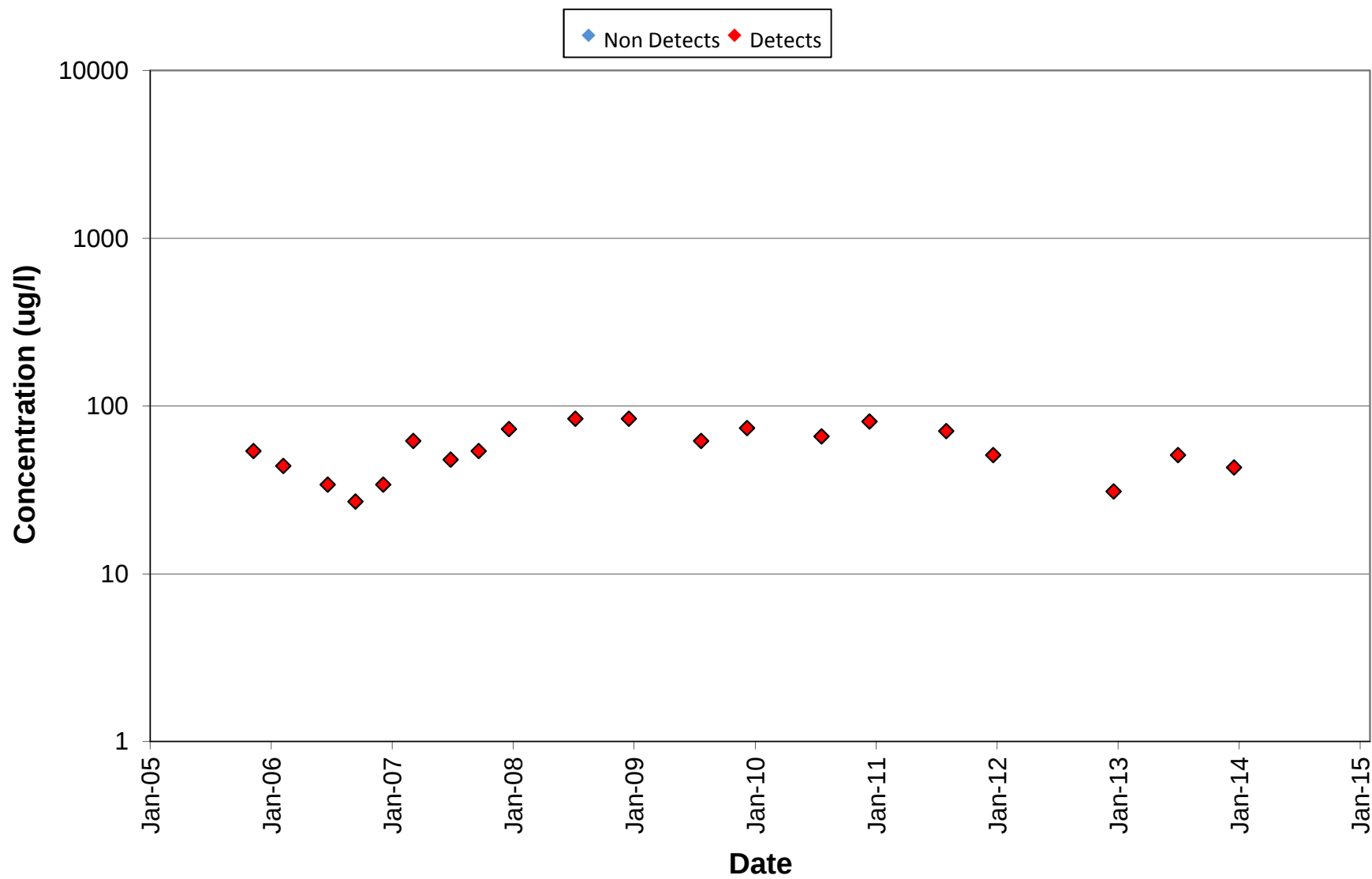
C-6 Vinyl Chloride



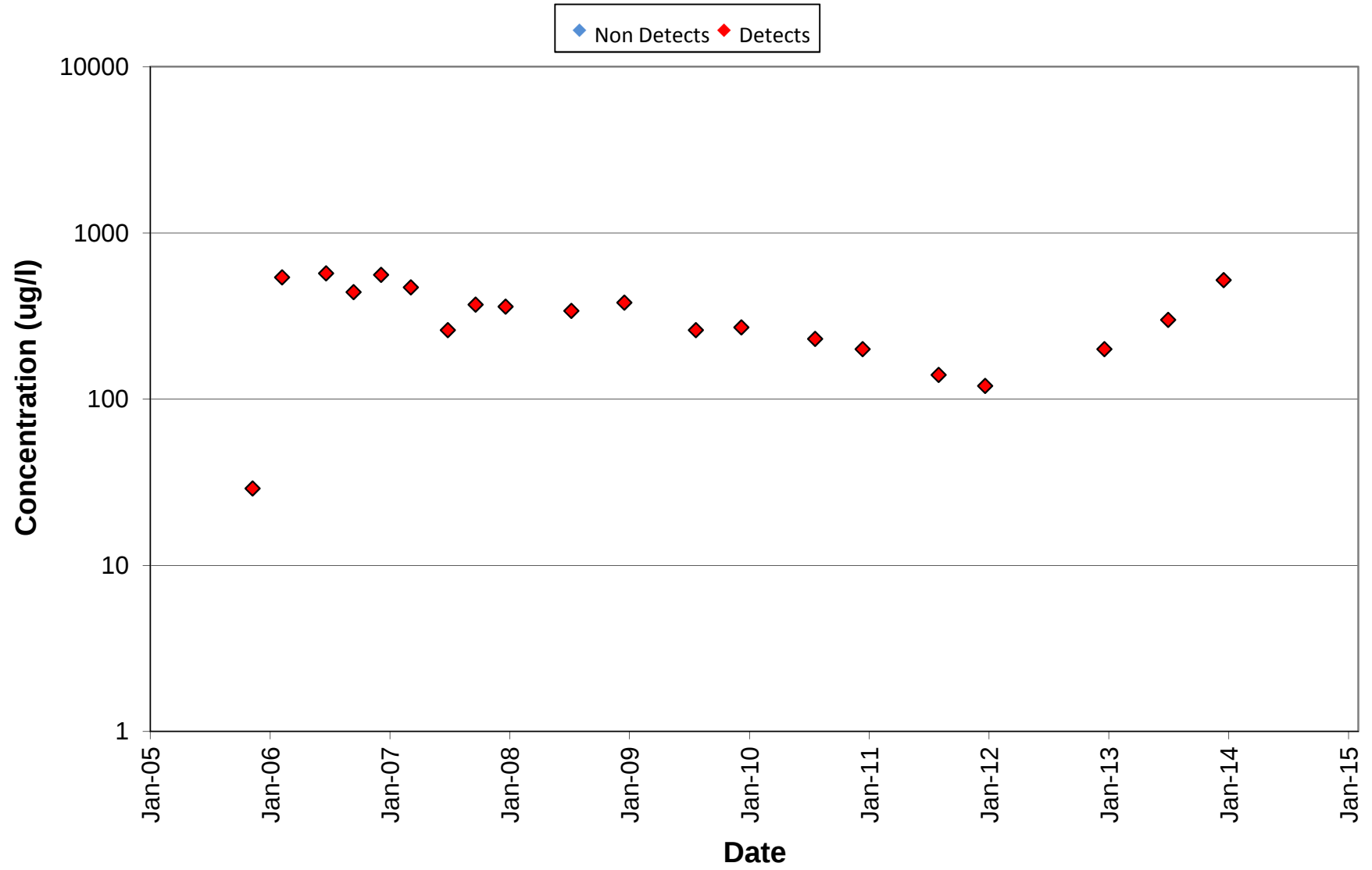
C-7 1,1 DCA Concentrations



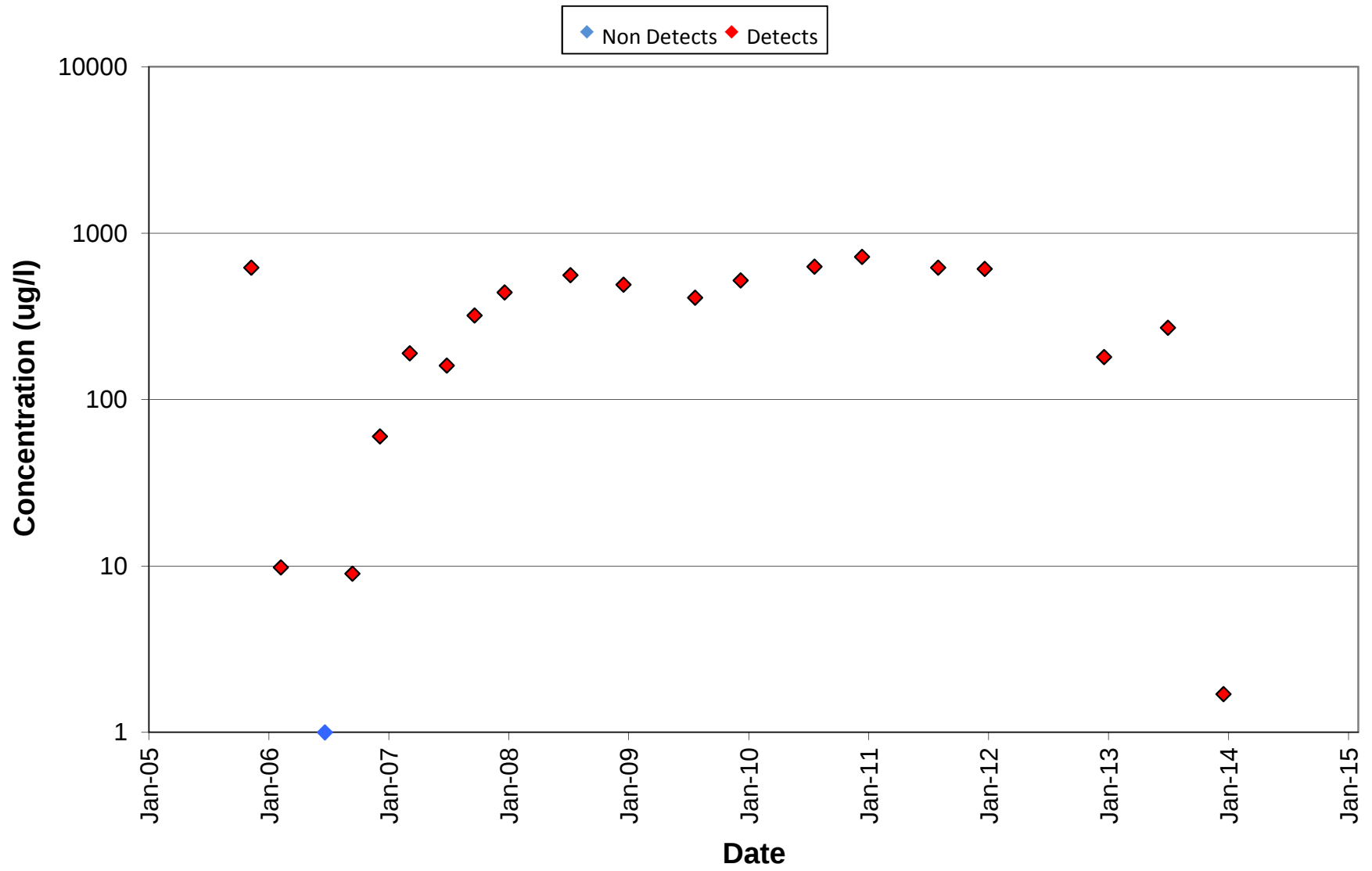
C-7 1,1 DCE Concentrations



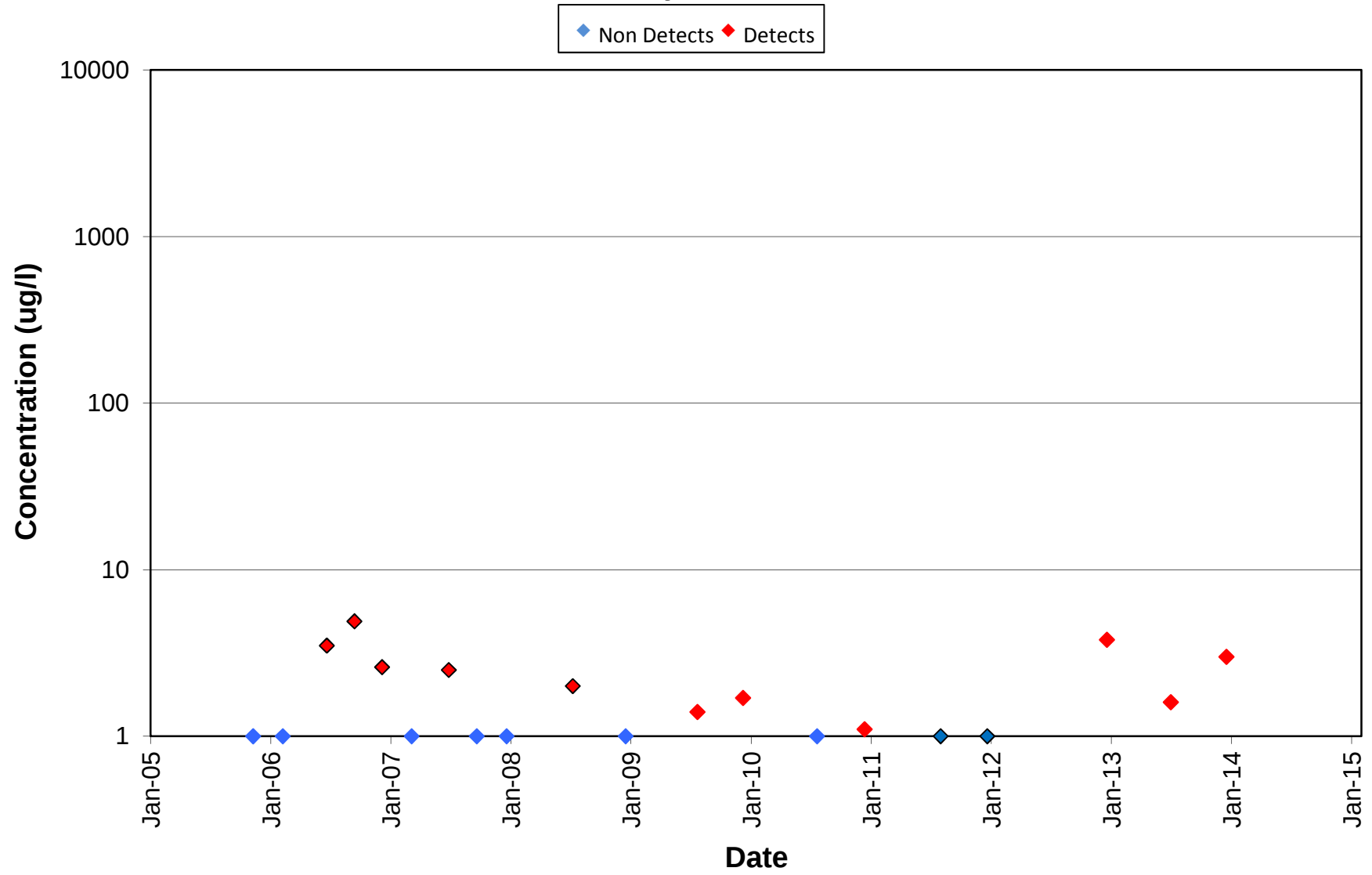
C-7 cis 1,2 DCE Concentrations



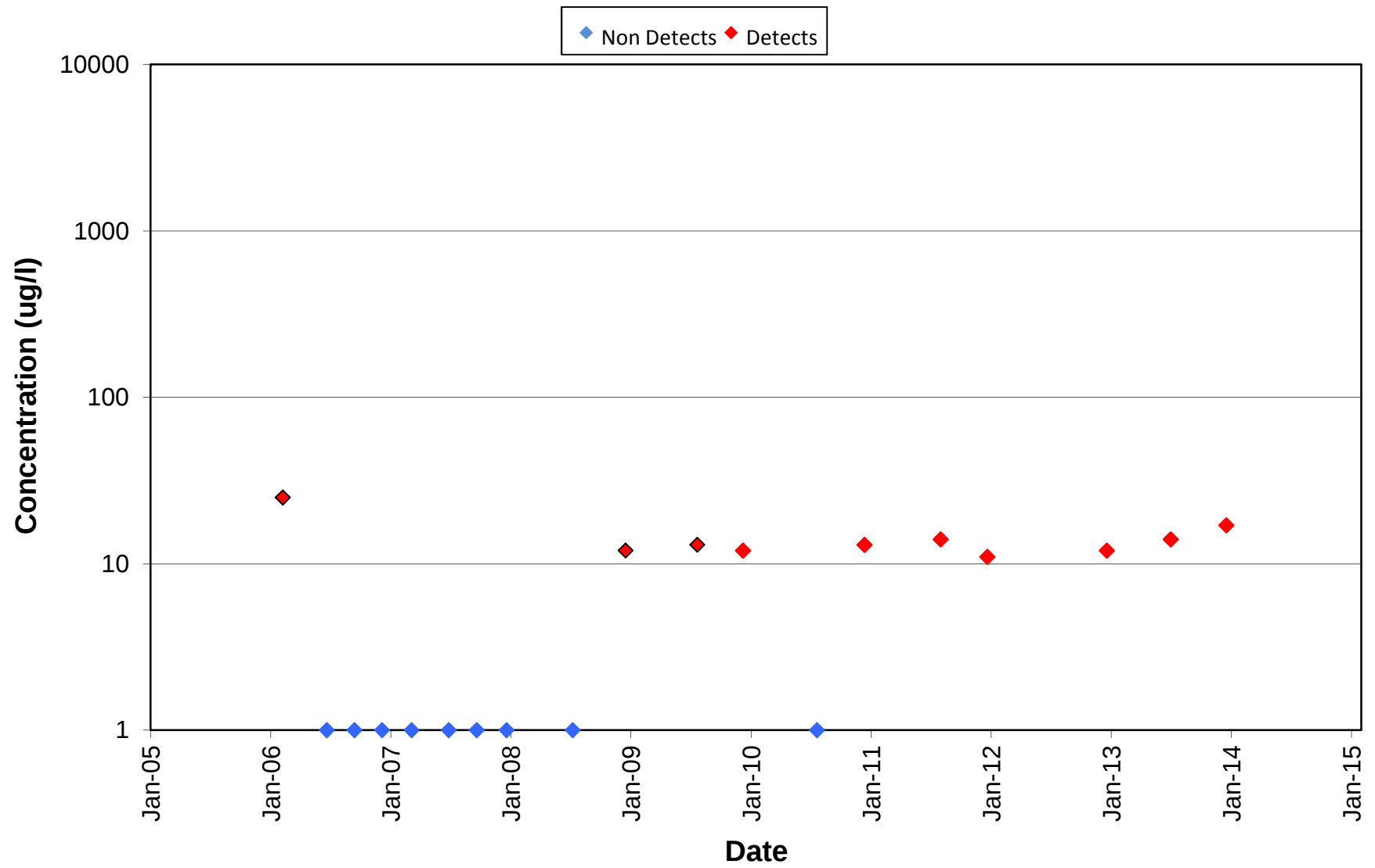
C-7 TCE Concentrations



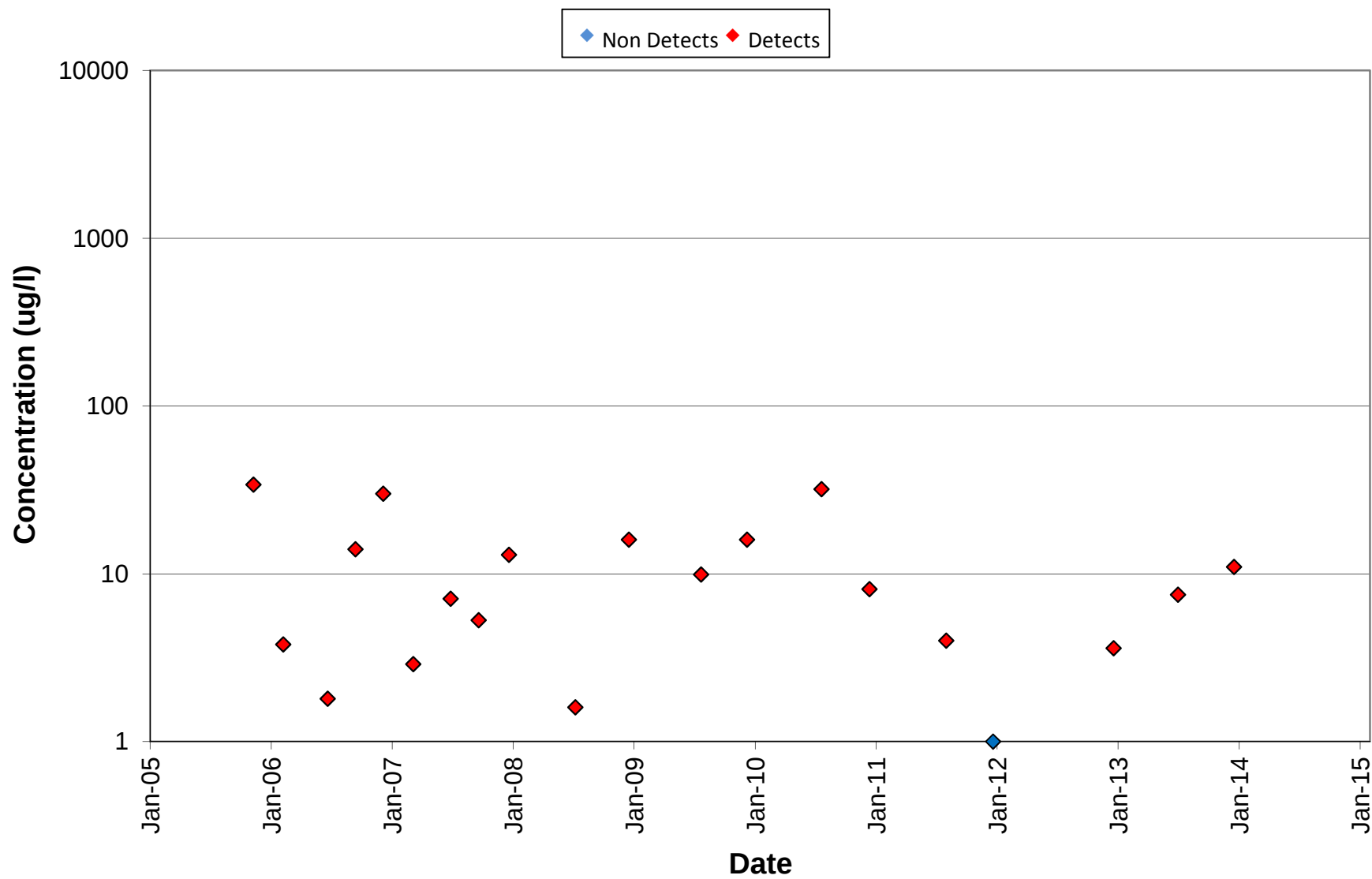
C-7 Vinyl Chloride



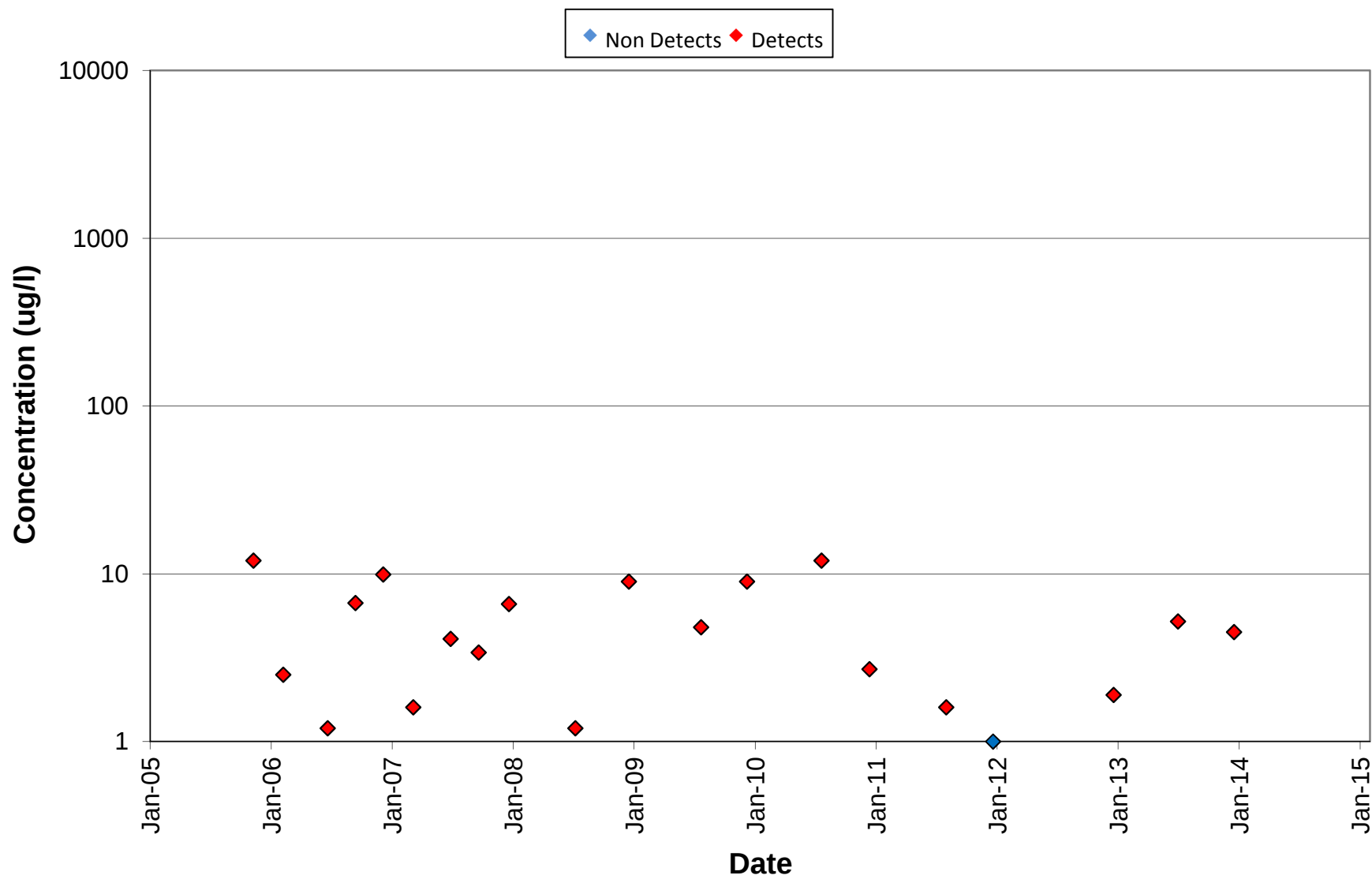
C-7 Ethene



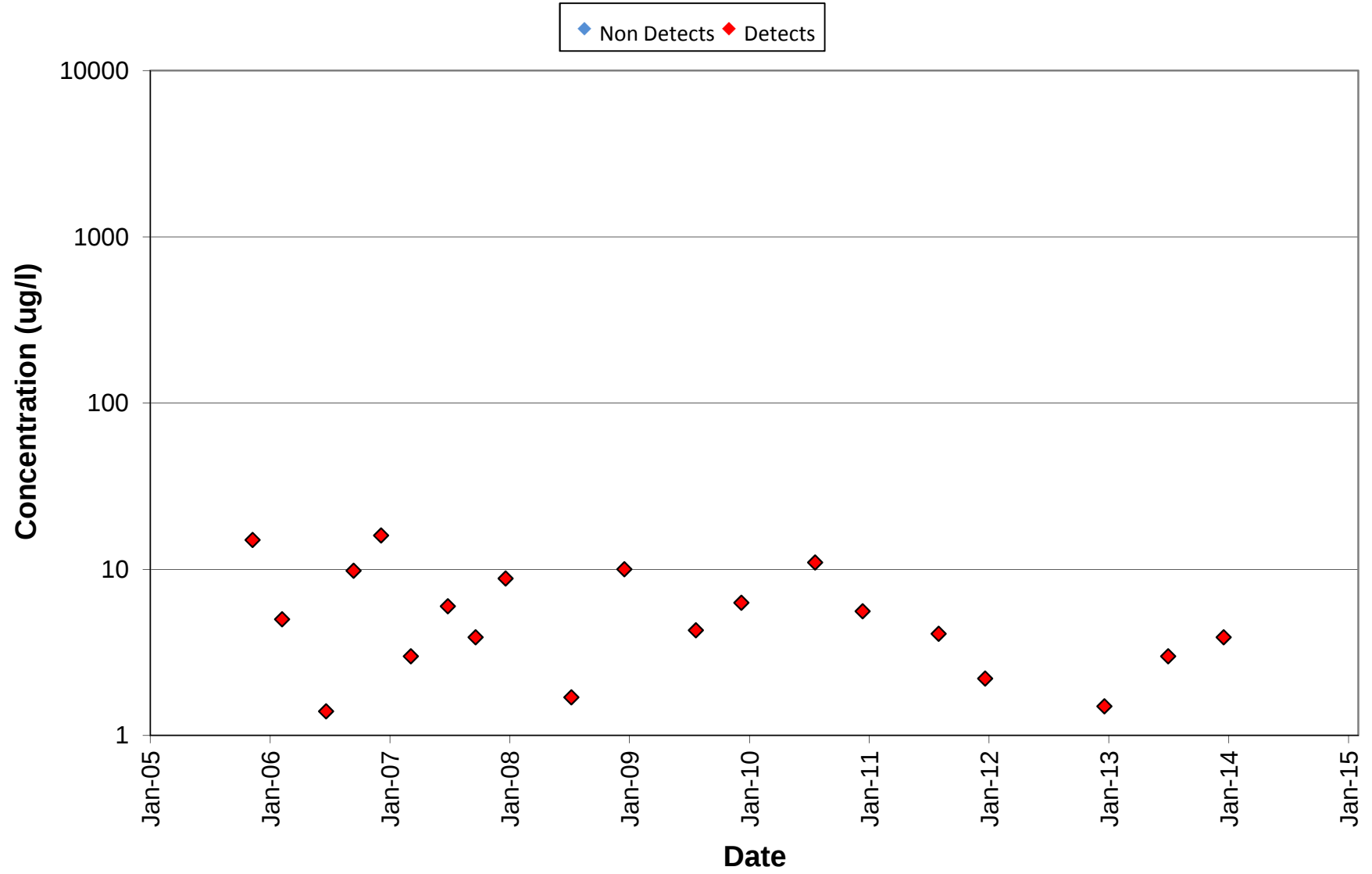
C-8 1,1 DCA Concentrations



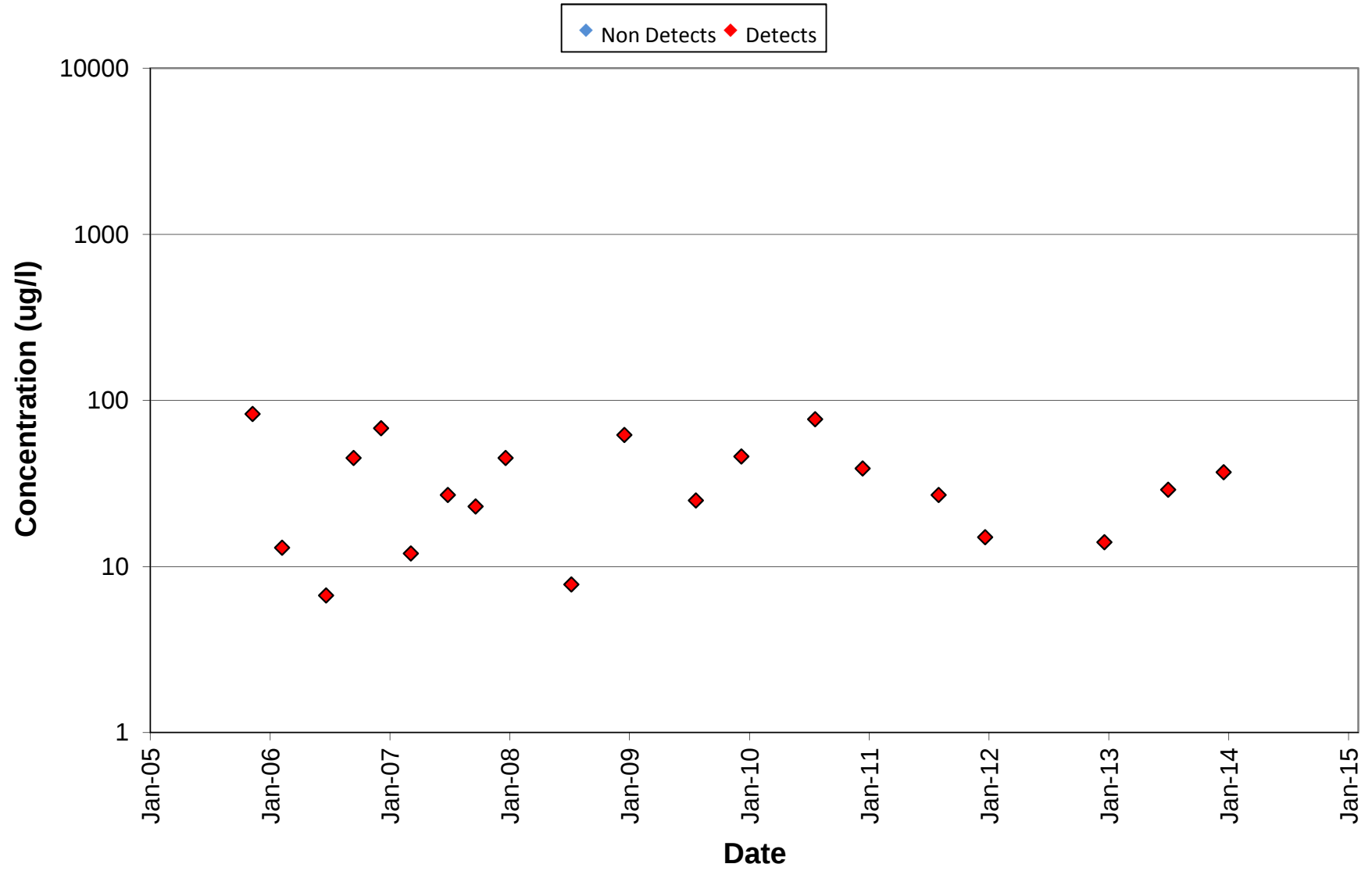
C-8 1,1 DCE Concentrations



C-8 cis 1,2 DCE Concentrations

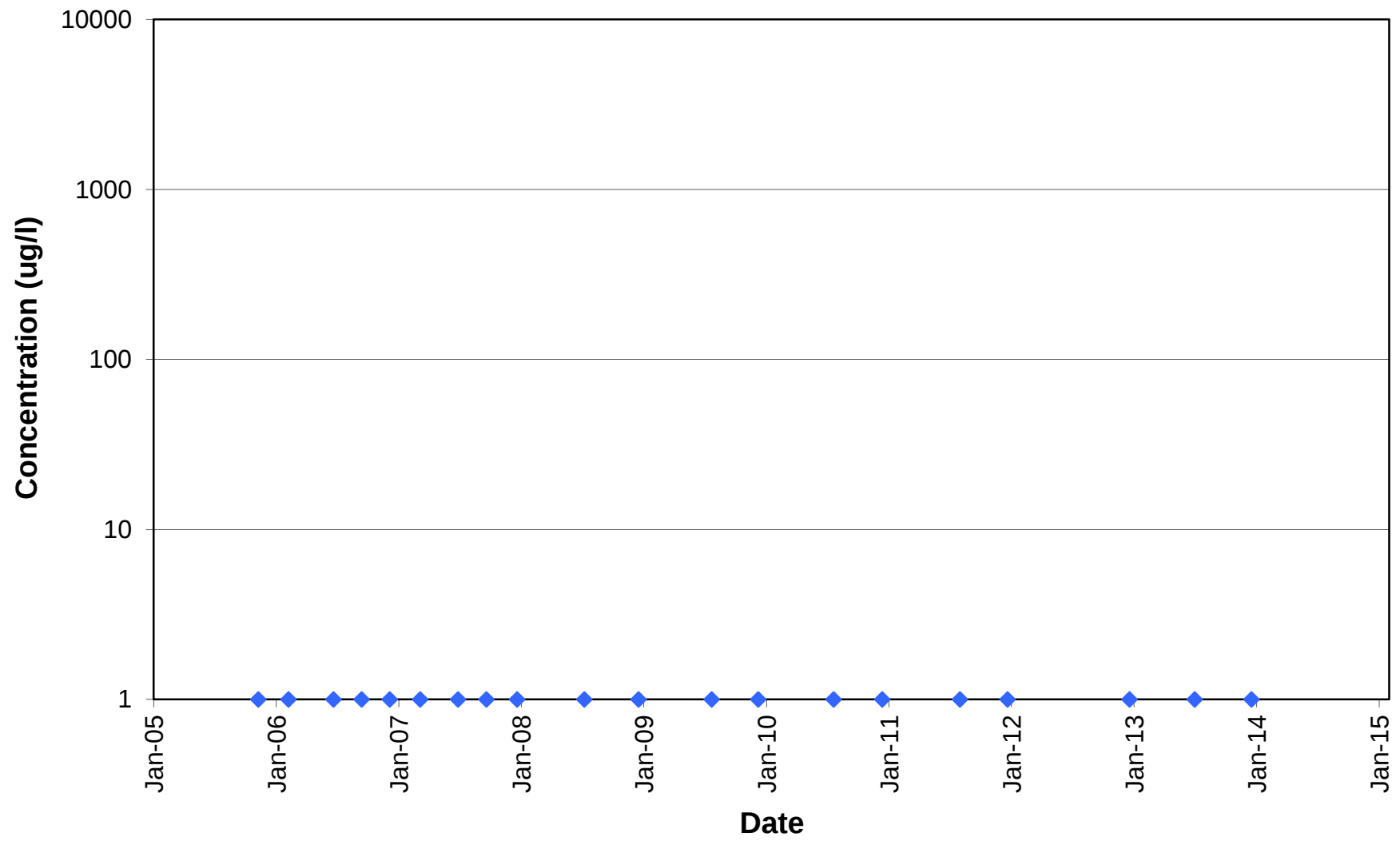


C-8 TCE Concentrations

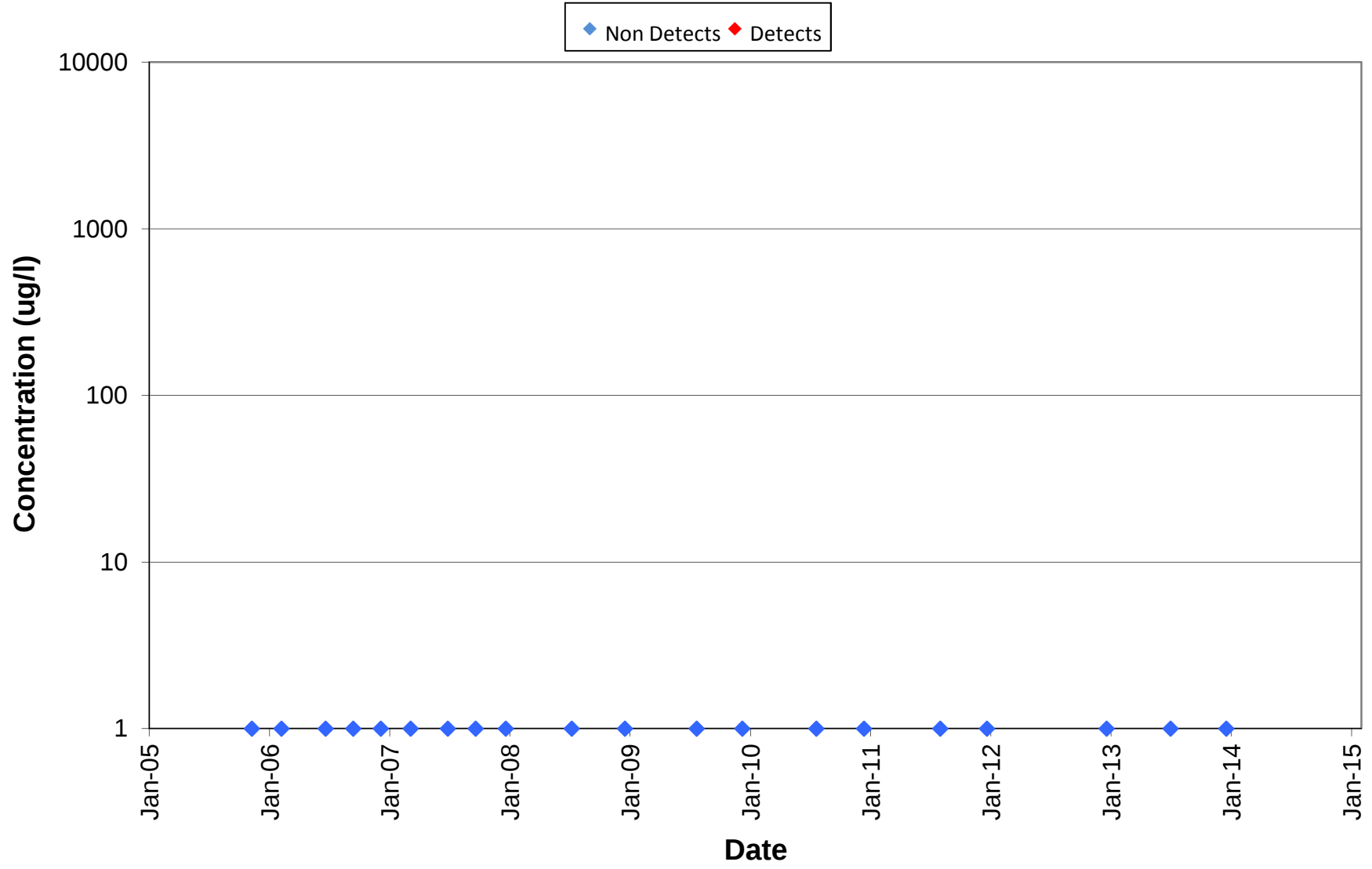


C-8 Vinyl Chloride

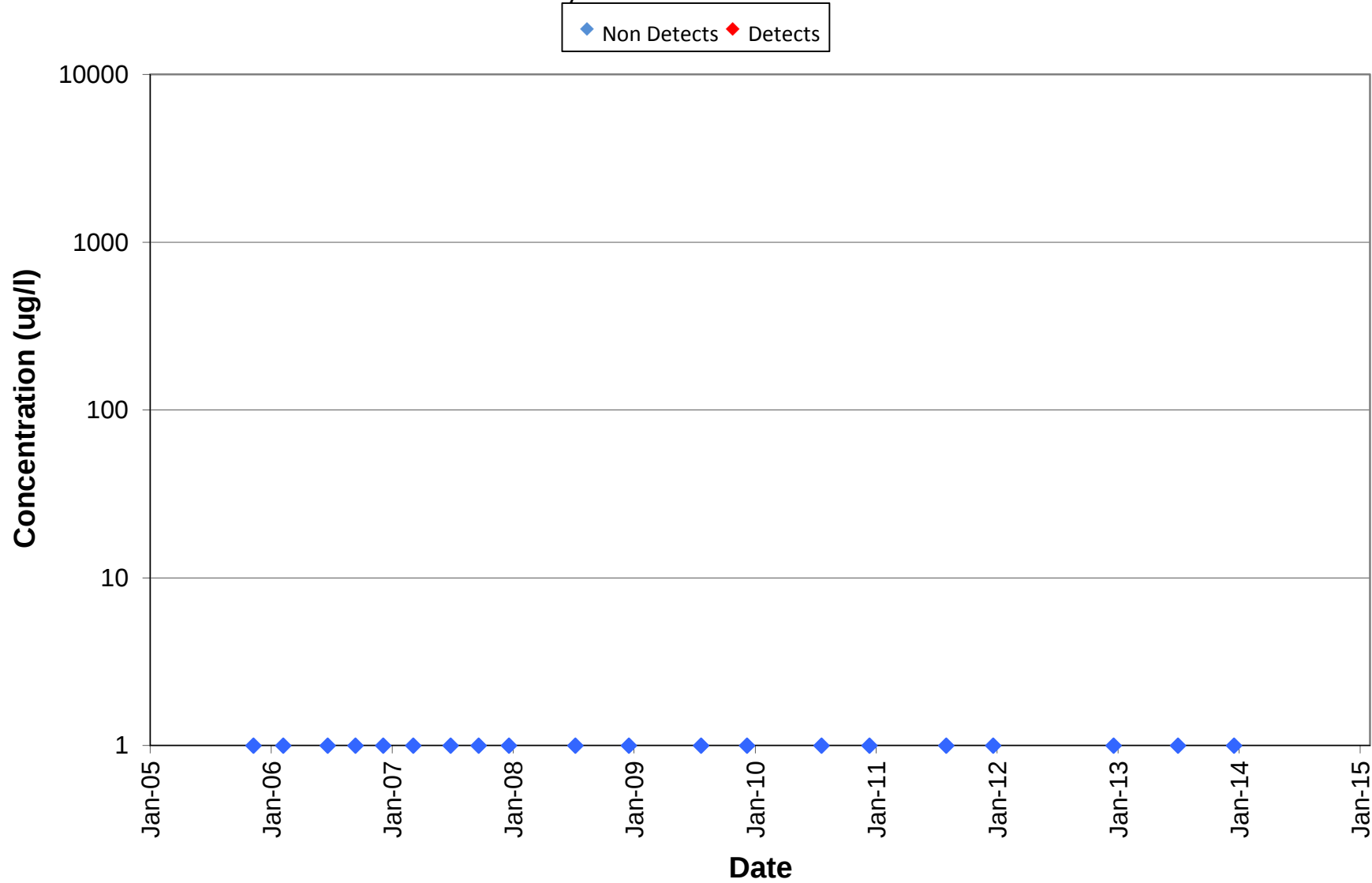
◆ Non Detects ◆ Detects



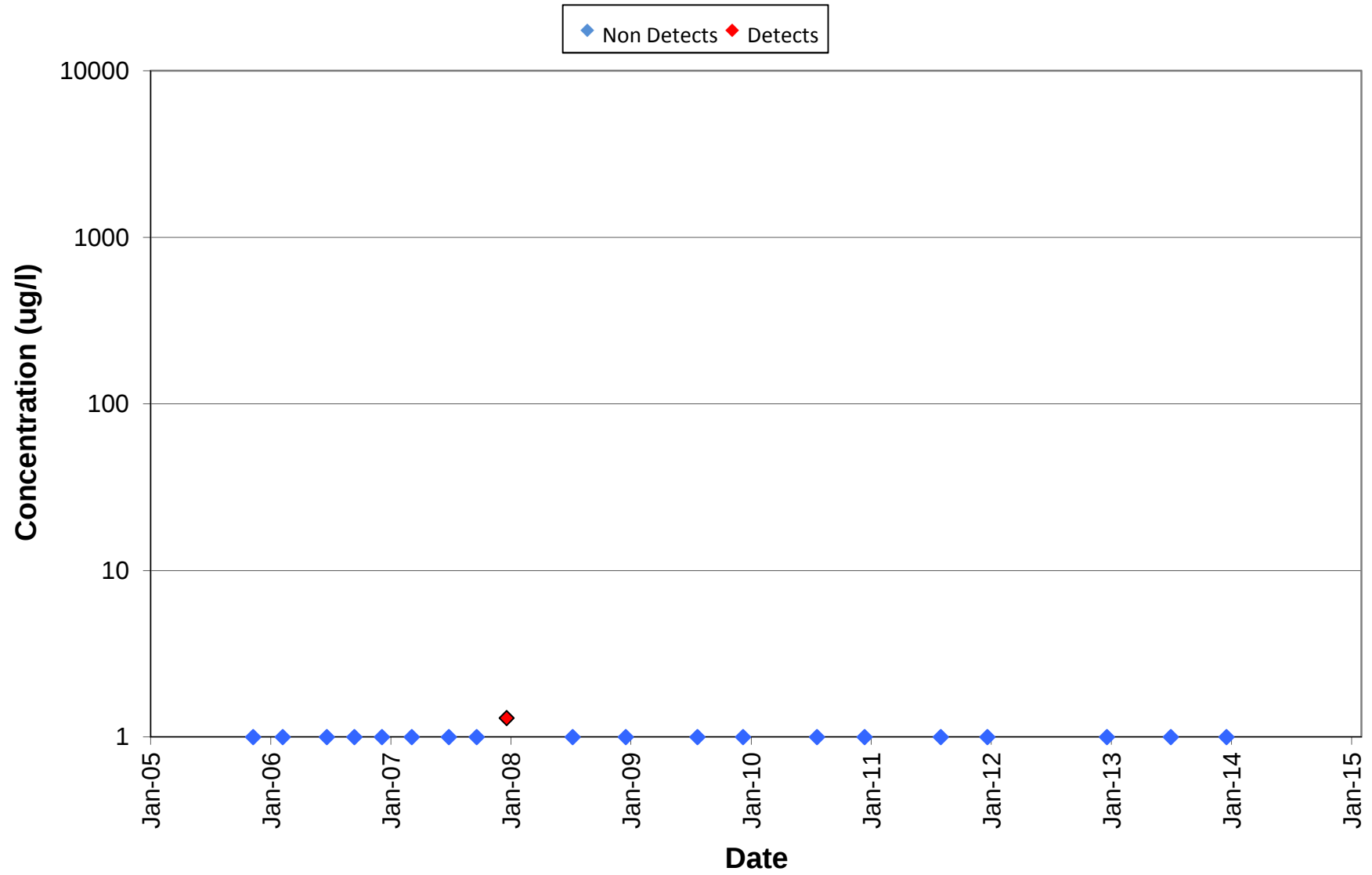
C-9 1,1 DCA Concentrations



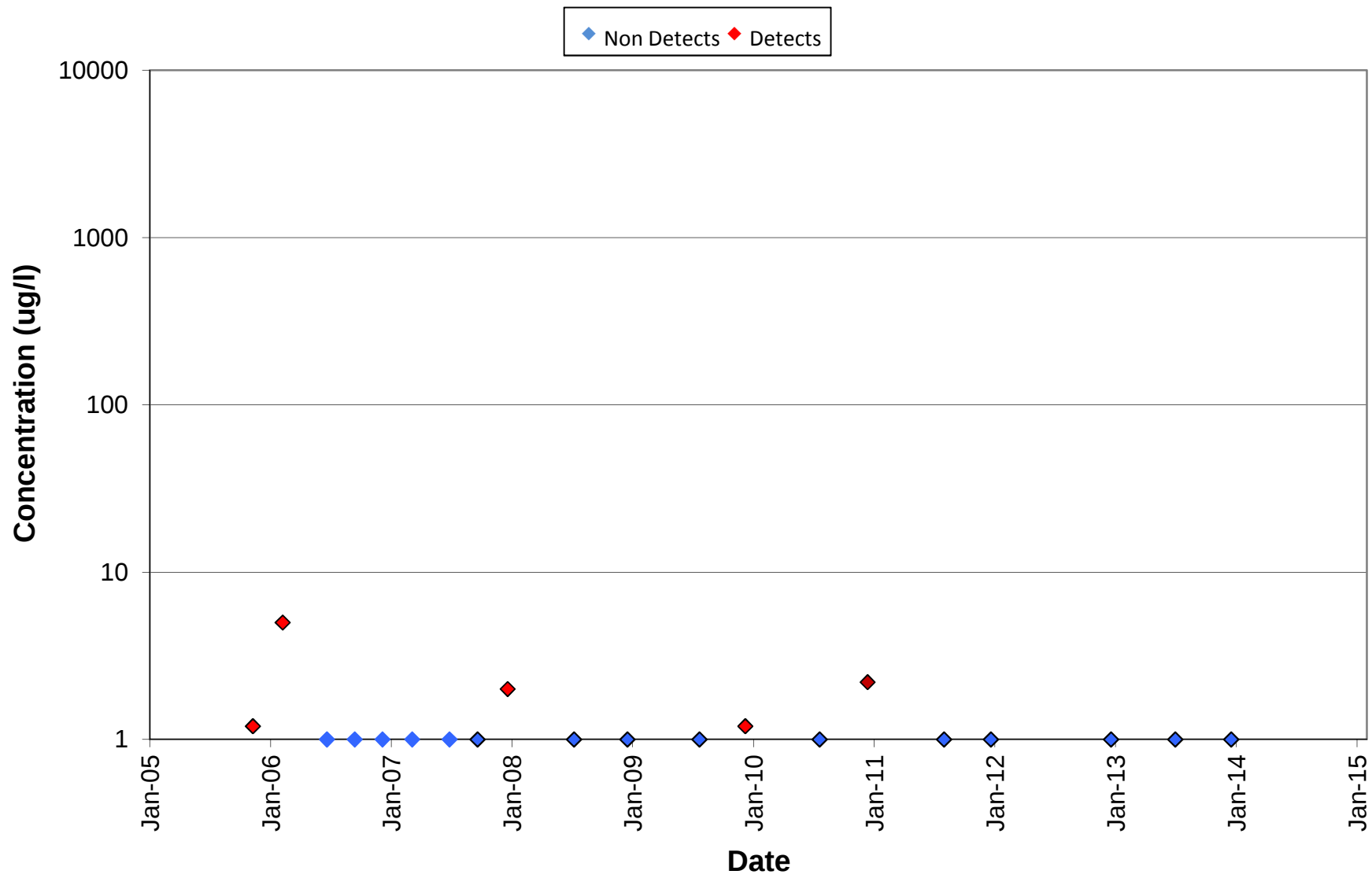
C-9 1,1 DCE Concentrations



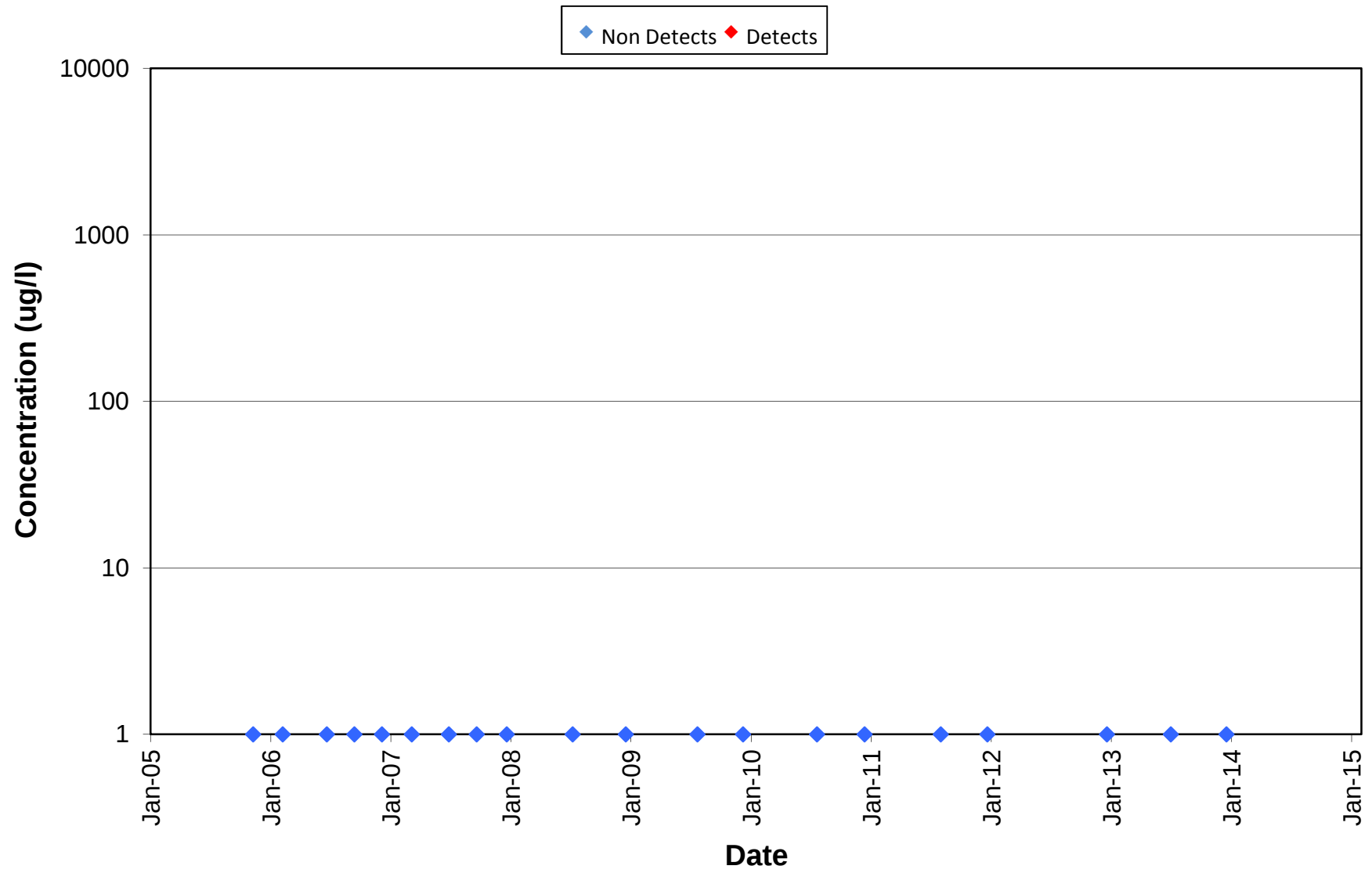
C-9 cis 1,2 DCE Concentrations



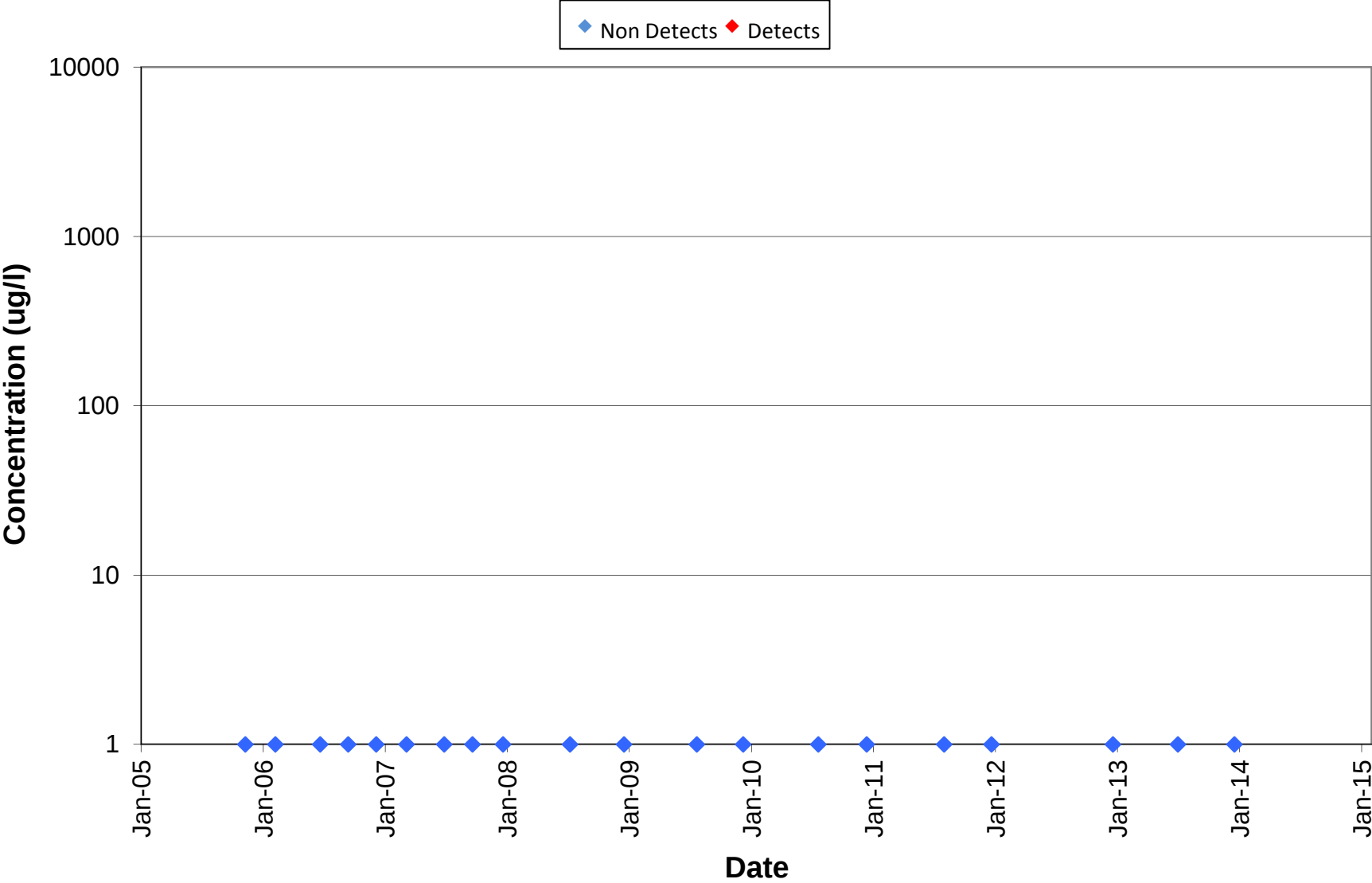
C-9 TCE Concentrations



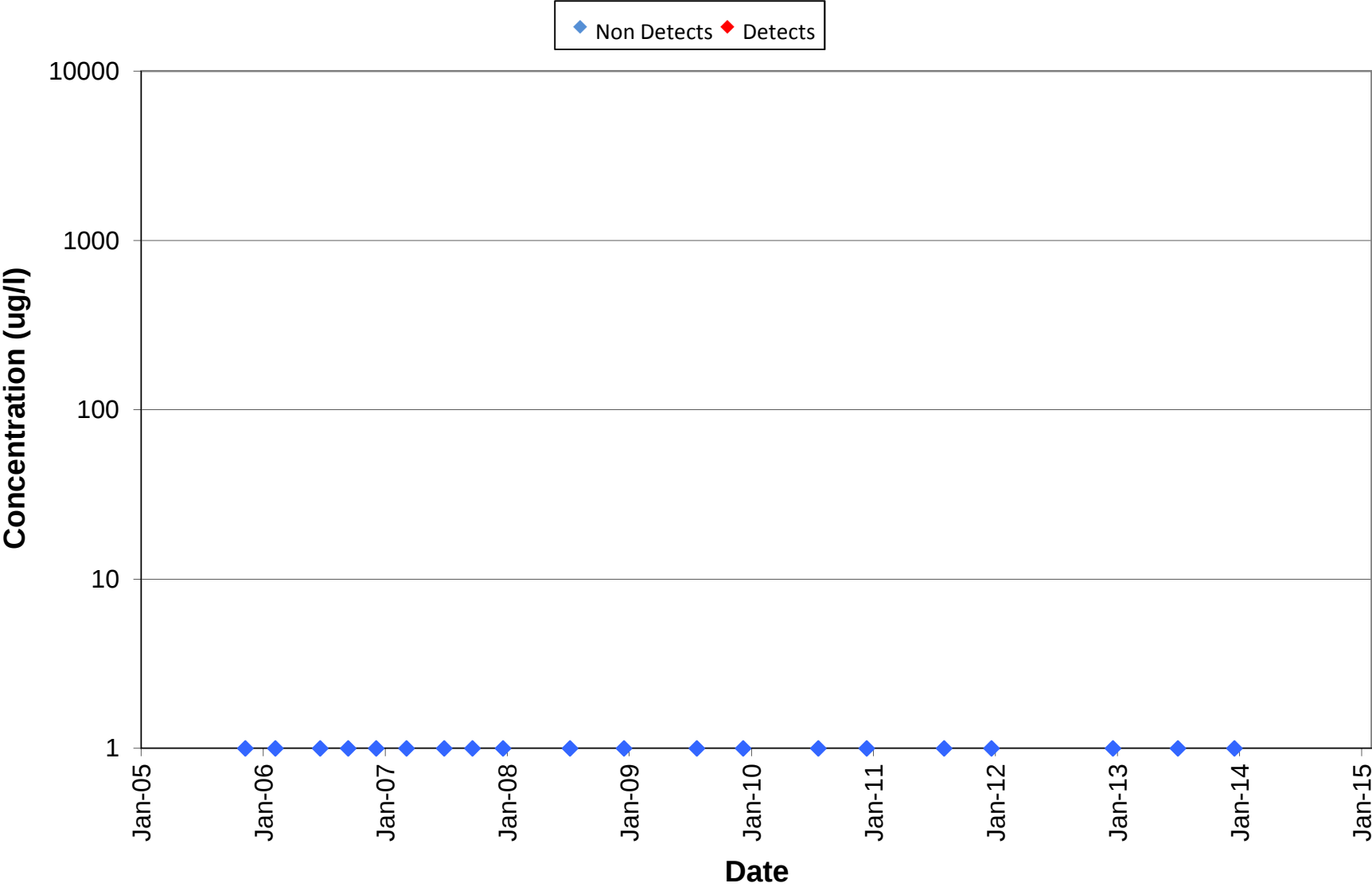
C-9 Vinyl Chloride



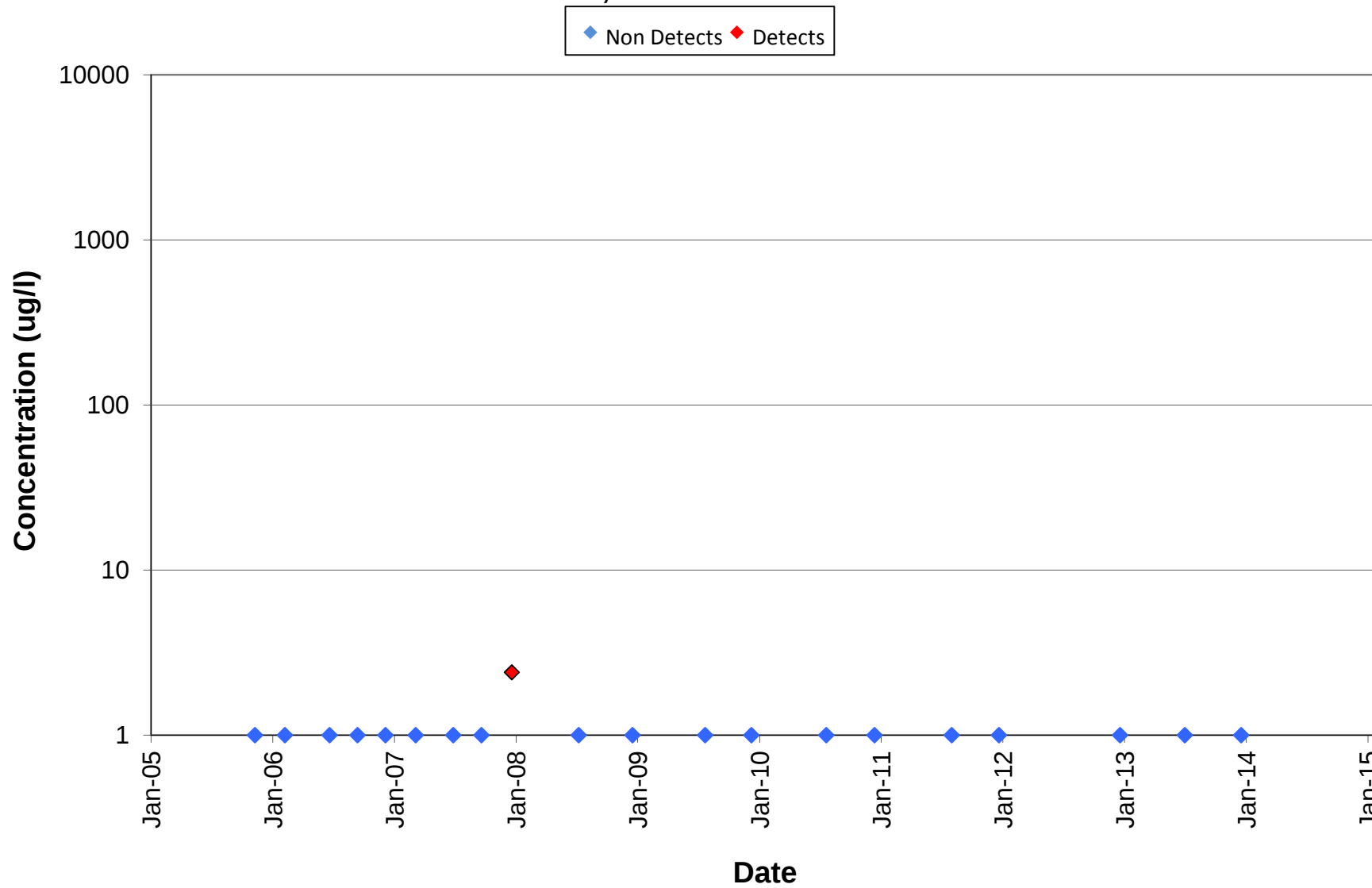
C-10 1,1 DCA Concentrations



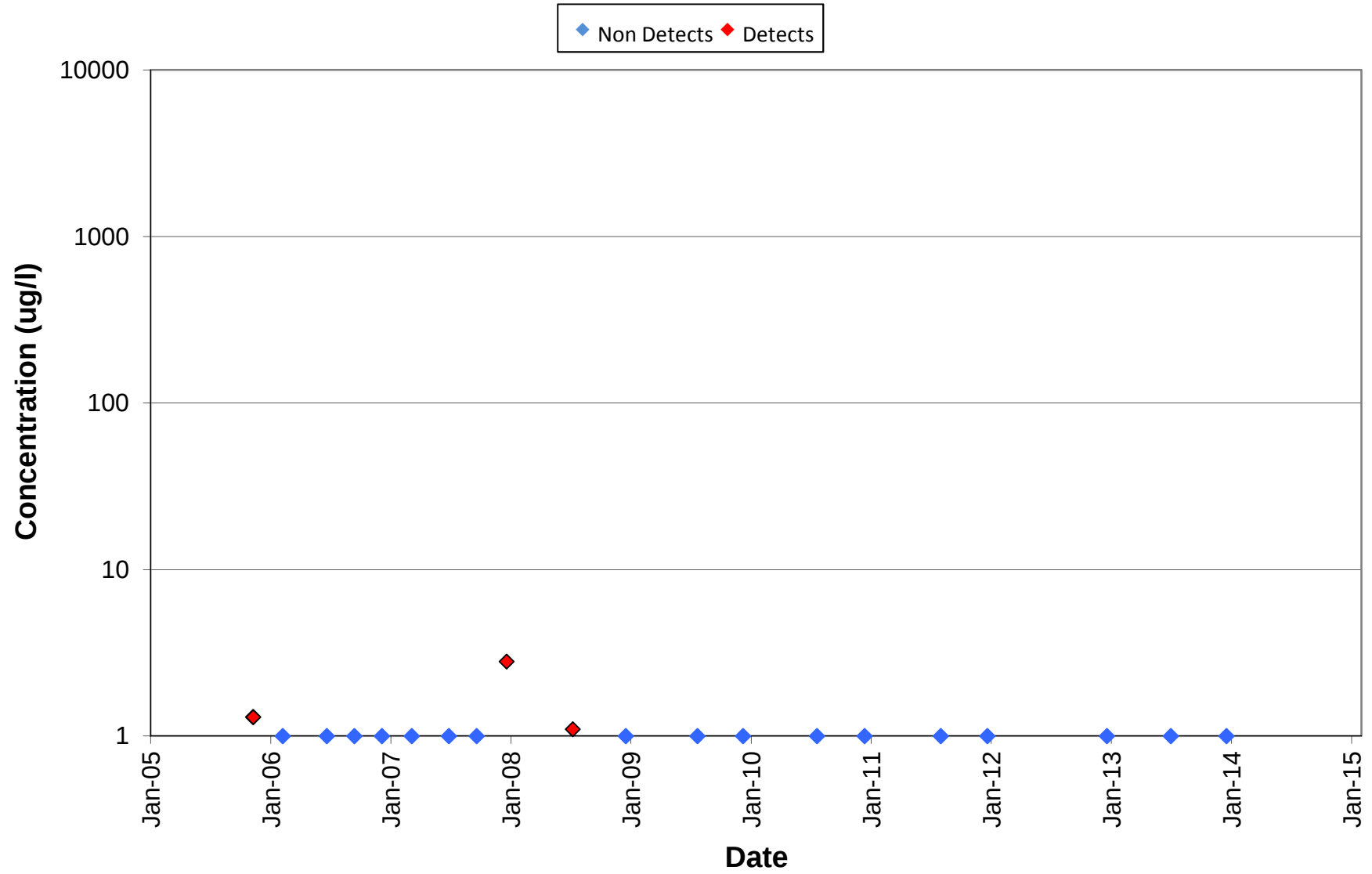
C-10 1,1 DCE Concentrations



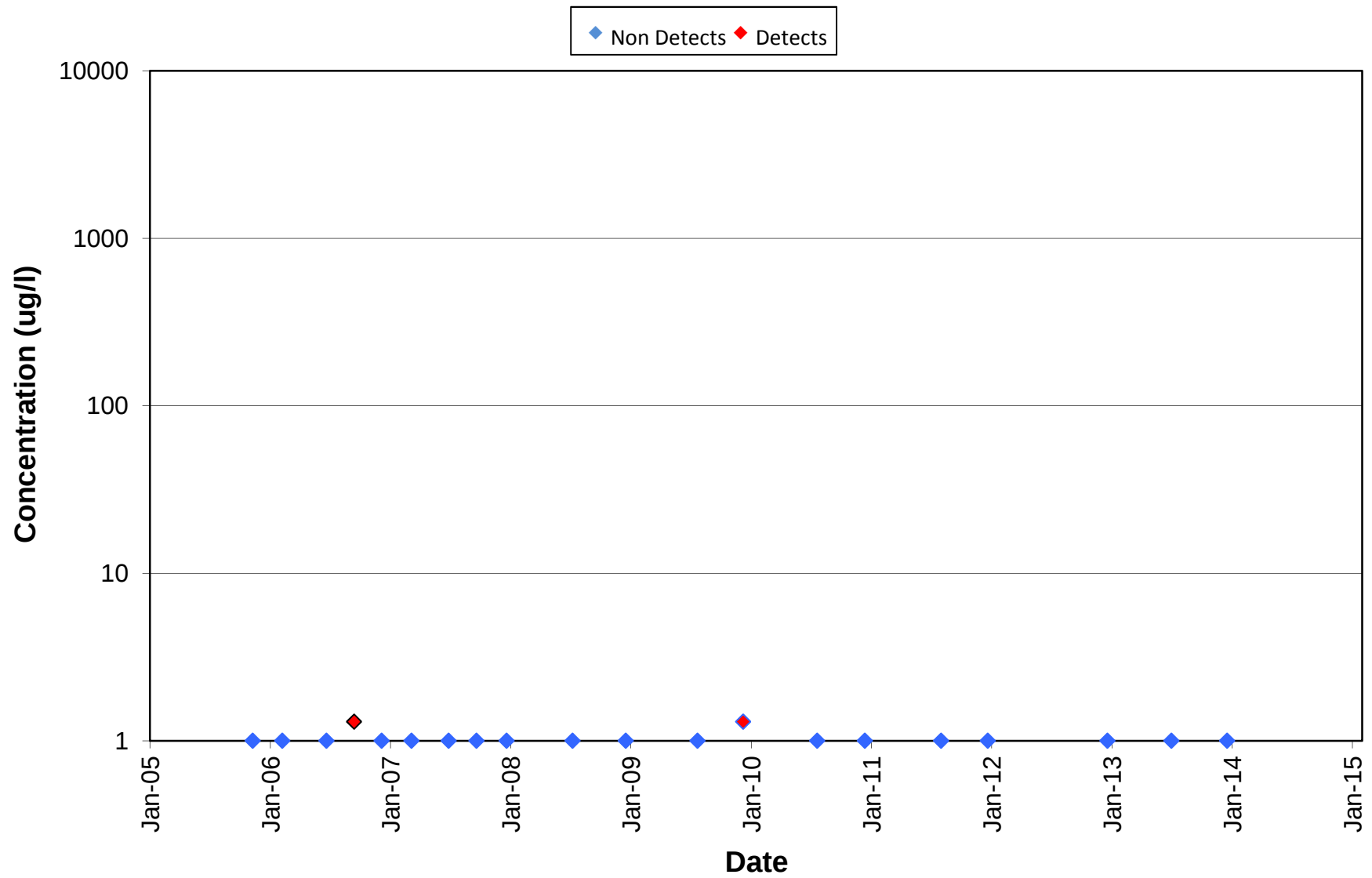
C-10 cis 1,2 DCE Concentrations



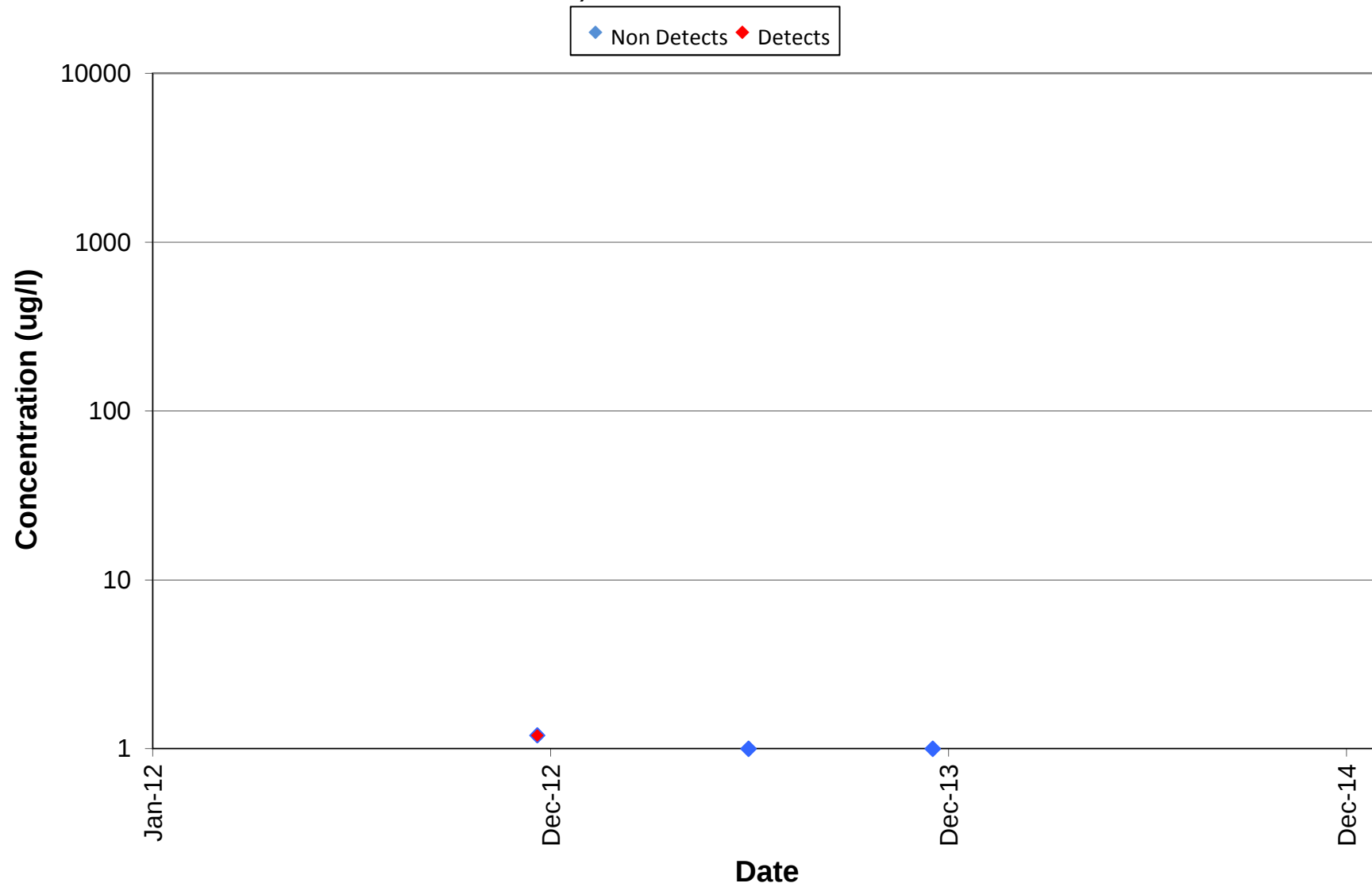
C-10 TCE Concentrations



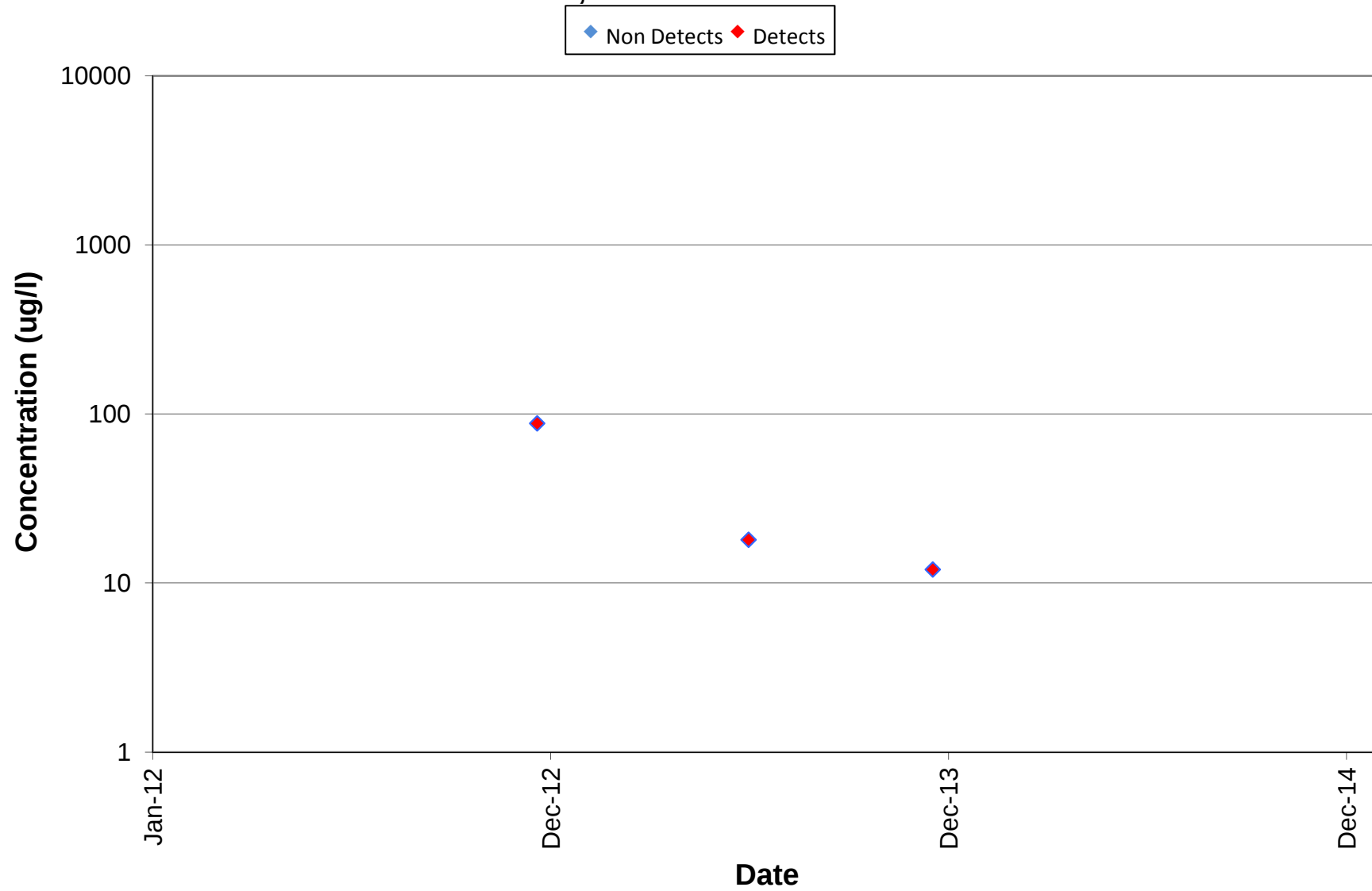
C-10 Vinyl Chloride



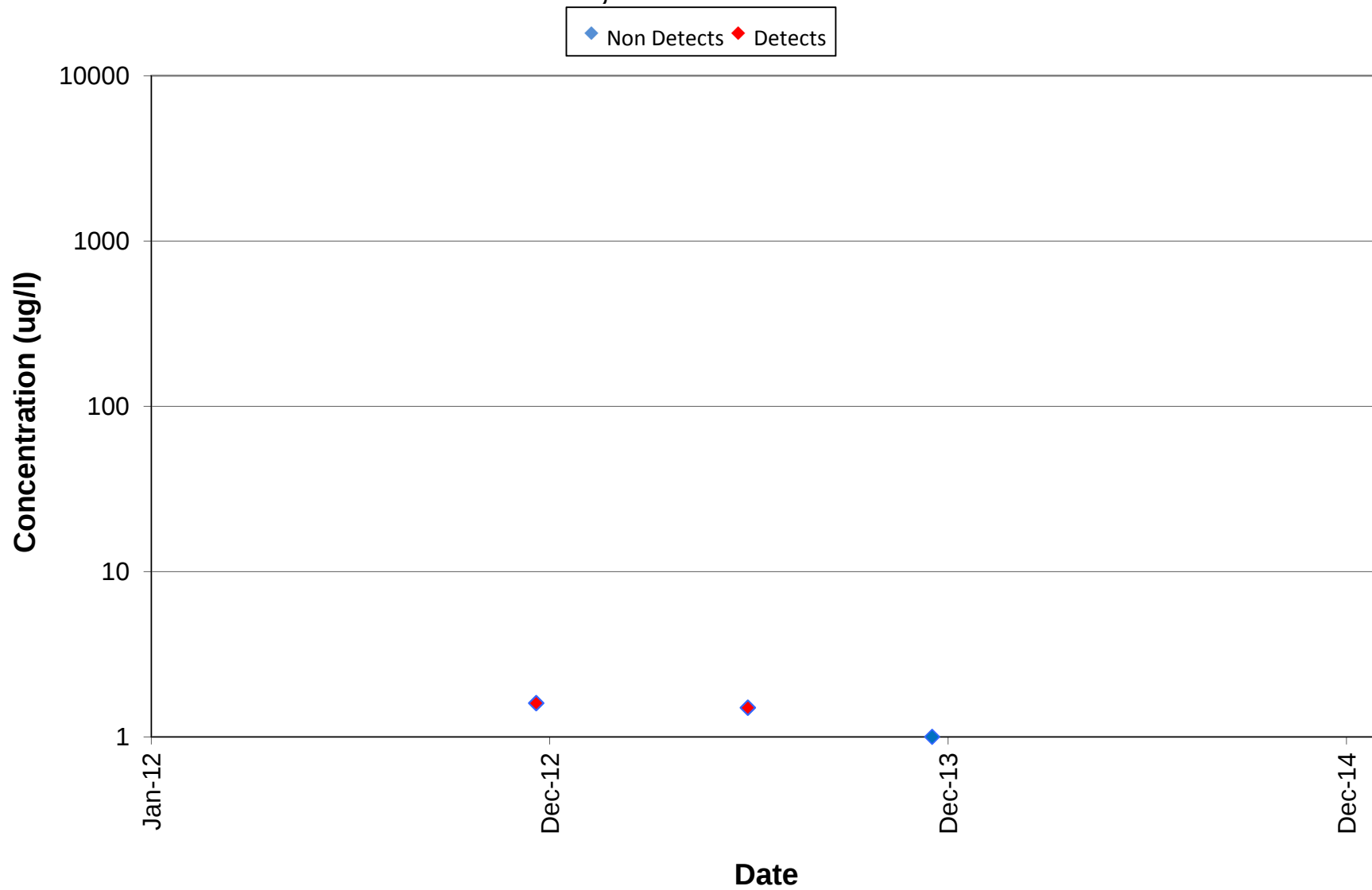
C-11 1,1 DCA Concentrations



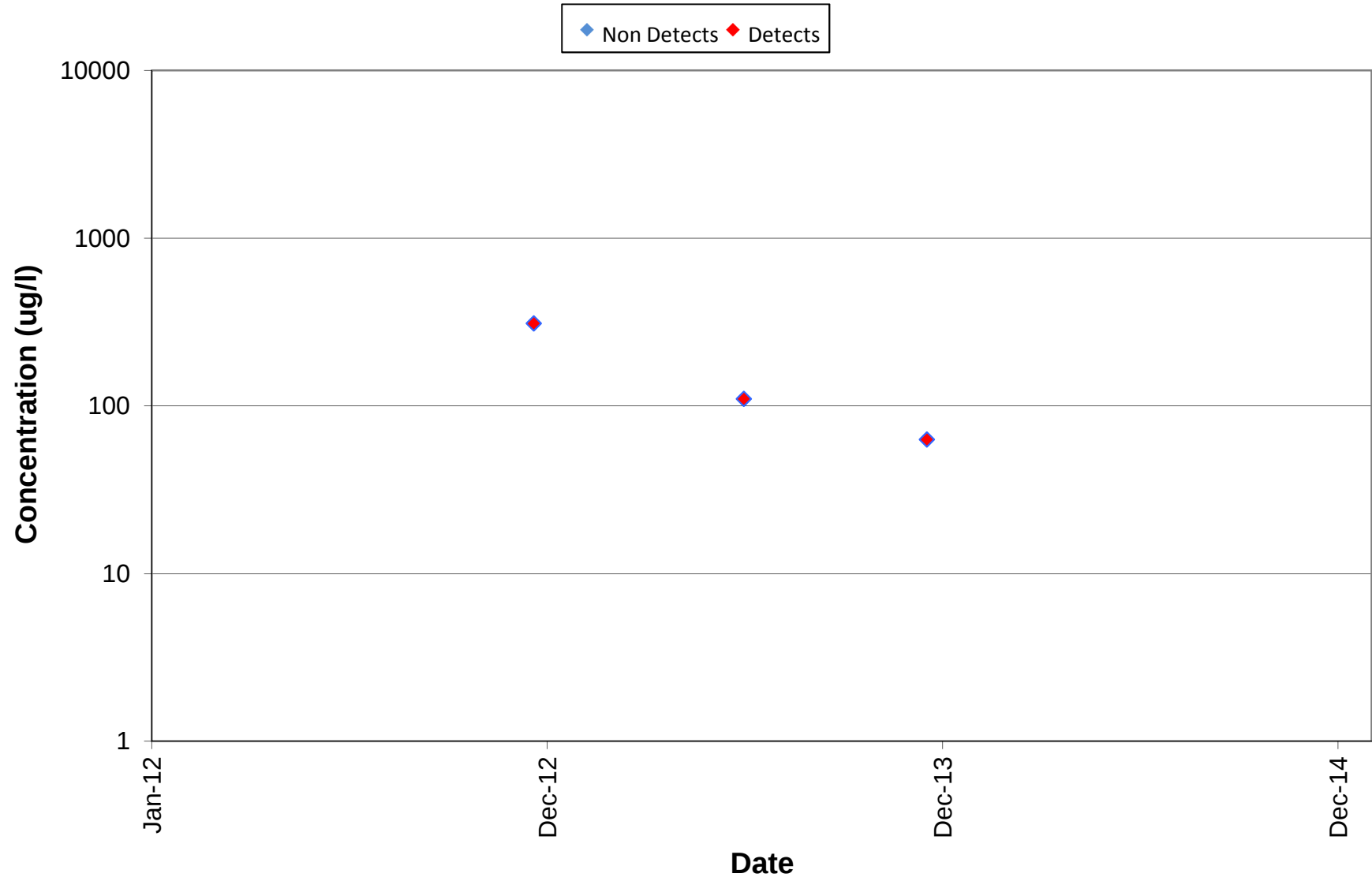
C-11 1,1 DCE Concentrations



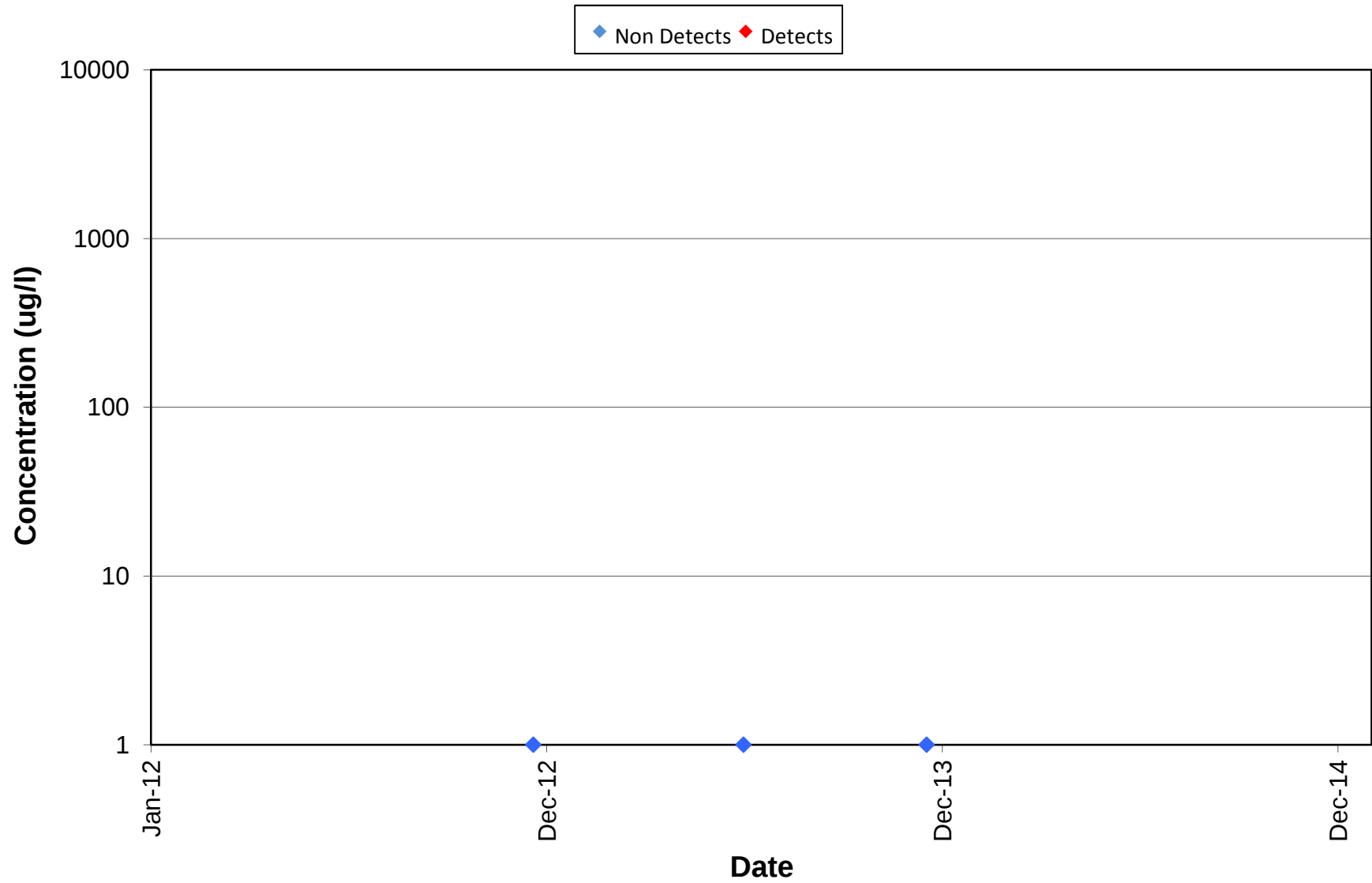
C-11 cis 1,2 DCE Concentrations



C-11 TCE Concentrations

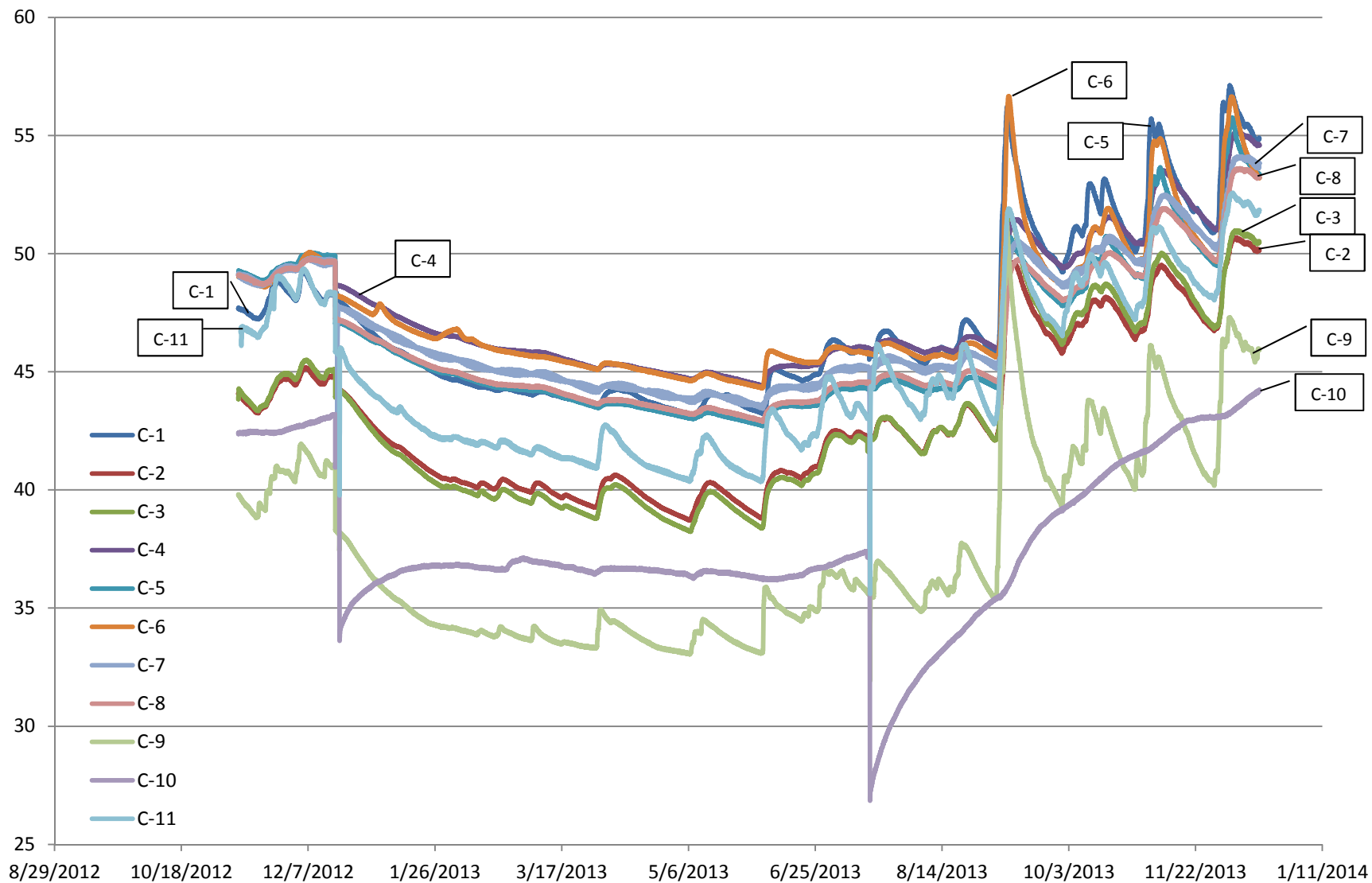


C-11 Vinyl Chloride

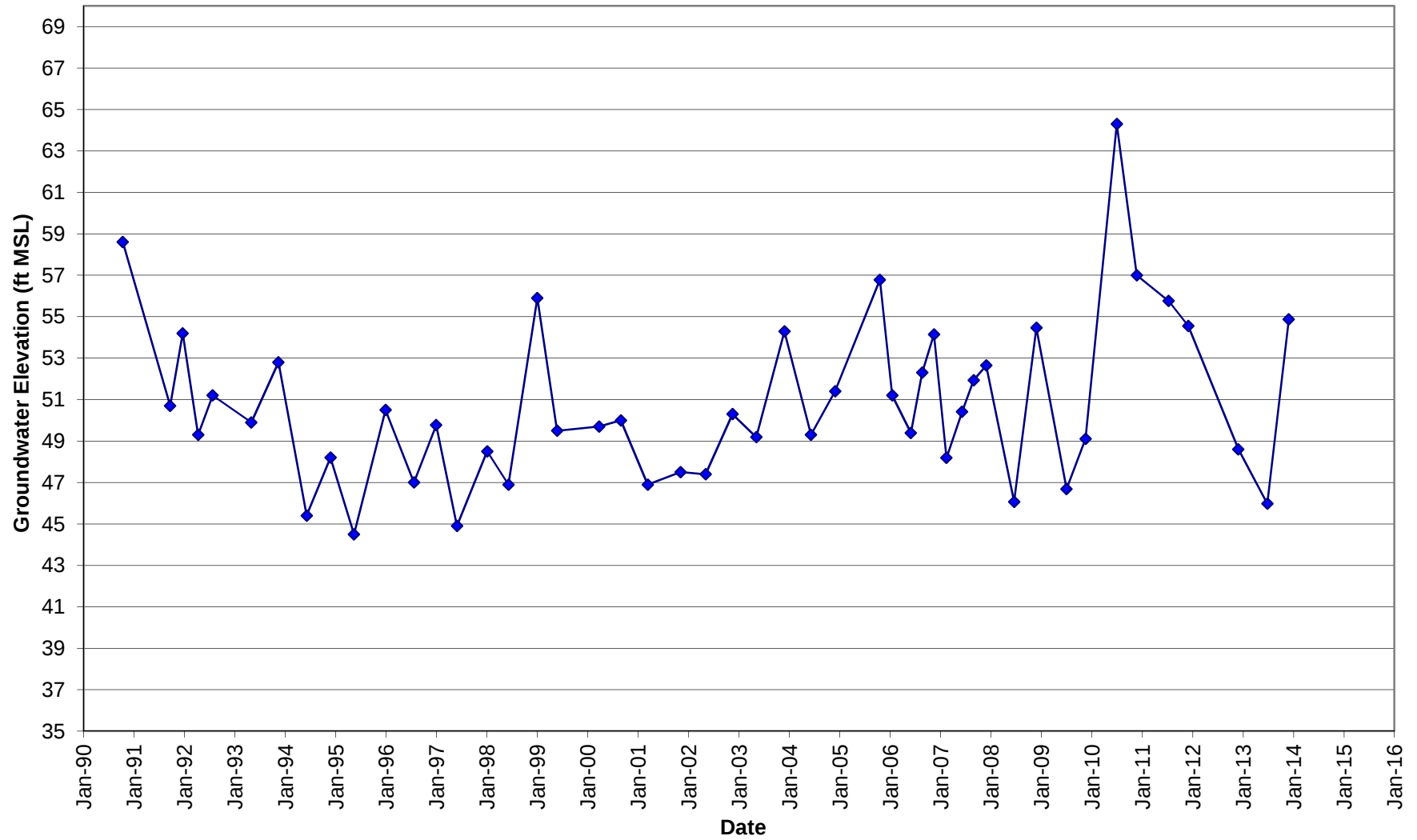


APPENDIX B

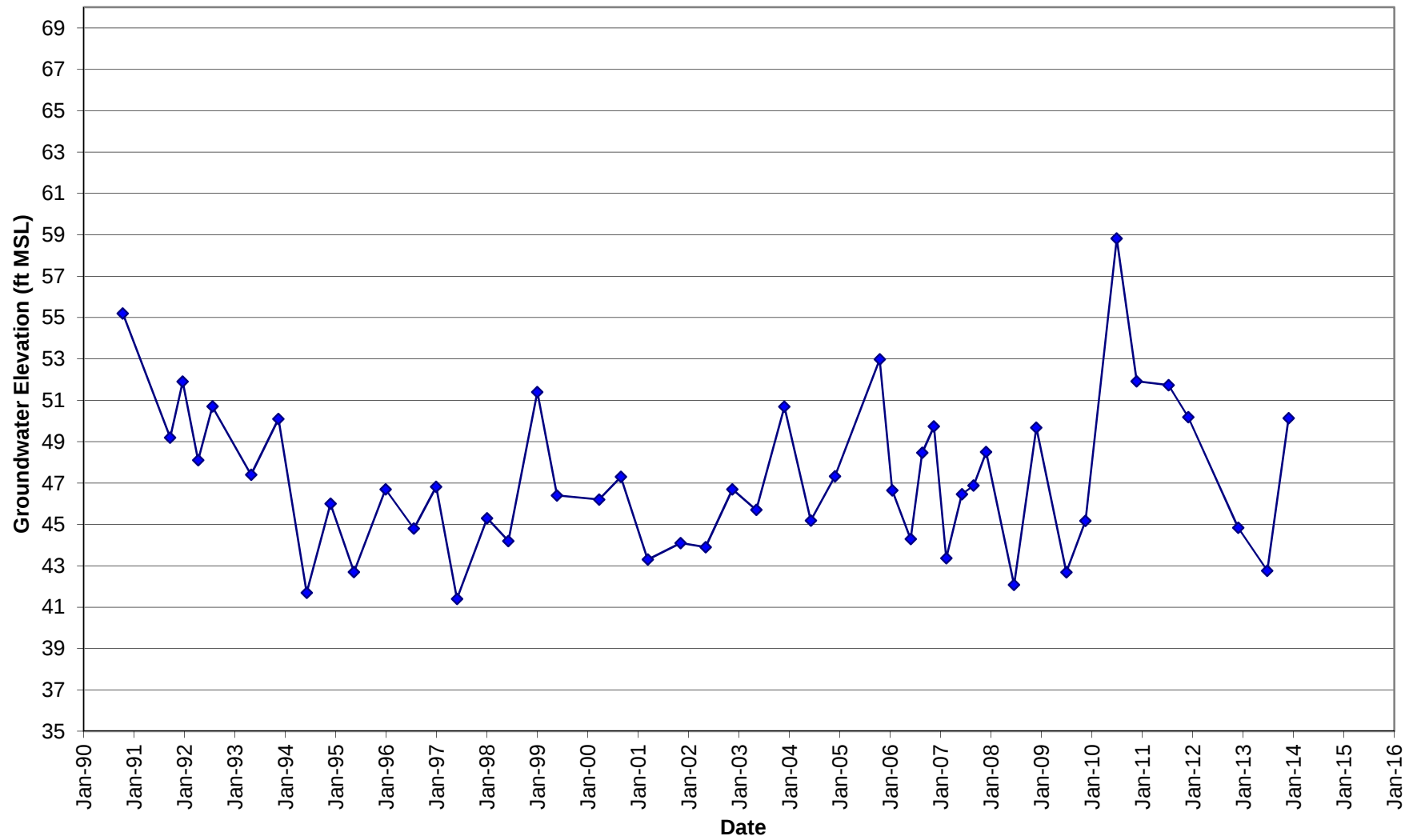
GE Vieques Groundwater Elevations



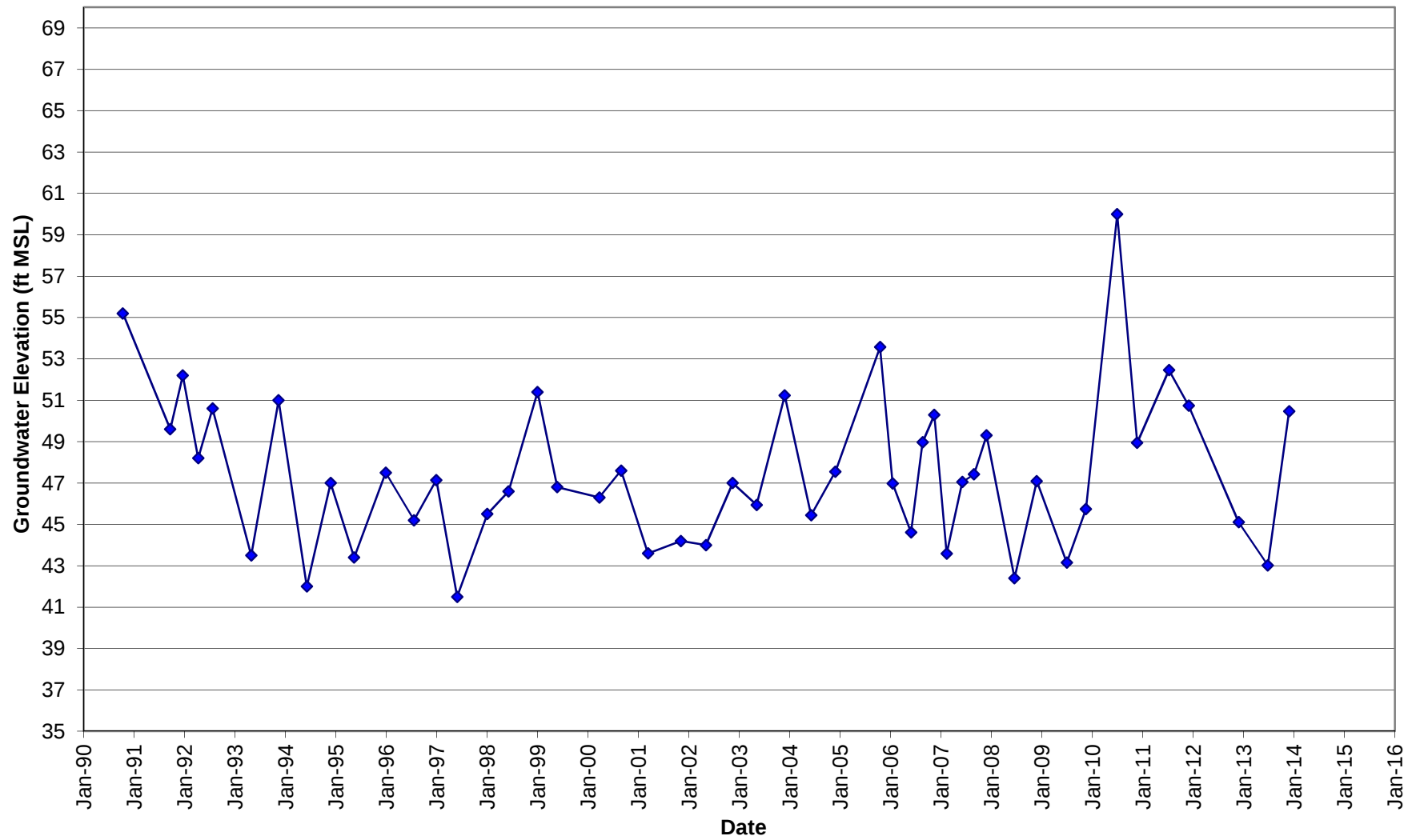
C-1 Historical Groundwater Elevation



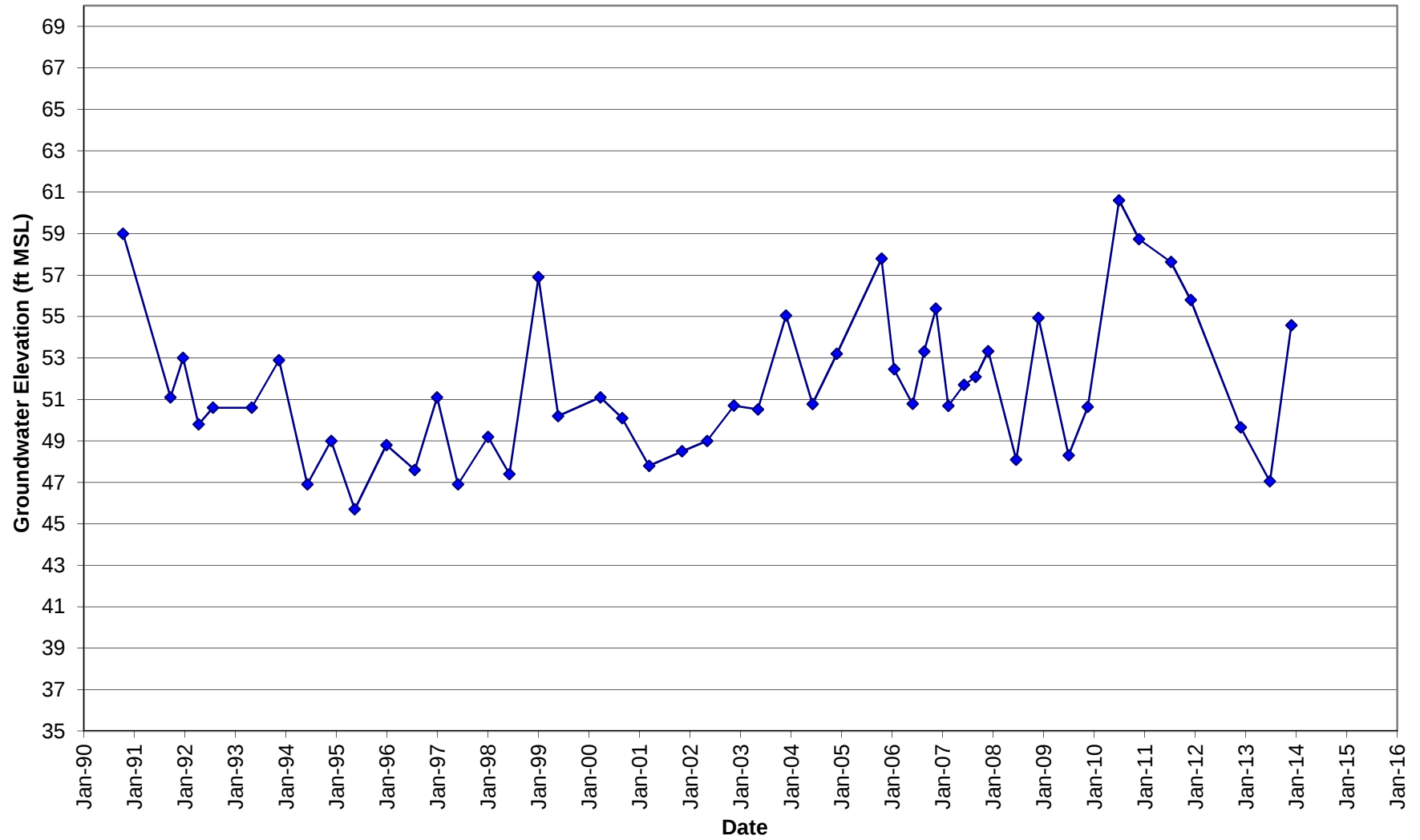
C-2 Historical Groundwater Elevation



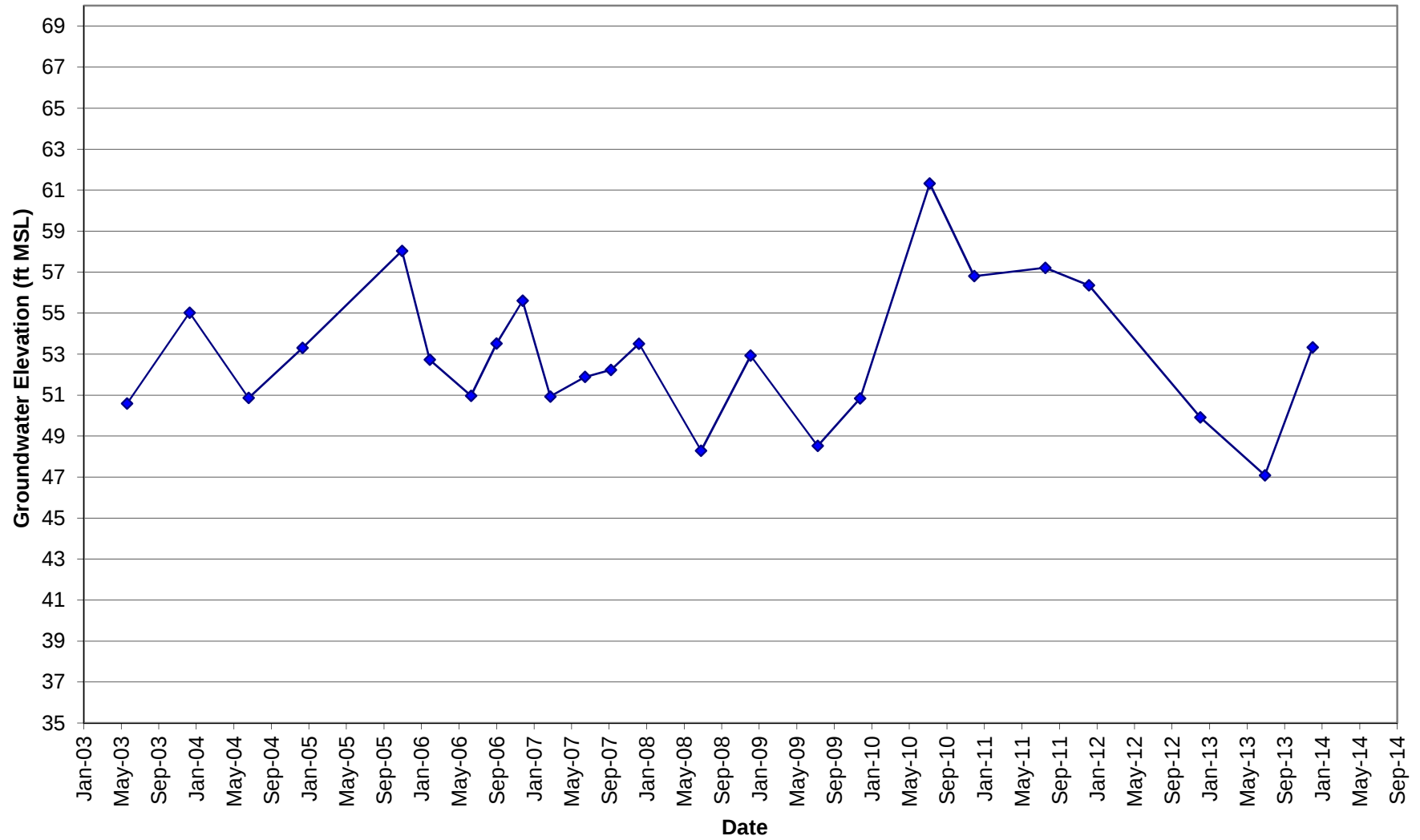
C-3 Historical Groundwater Elevation



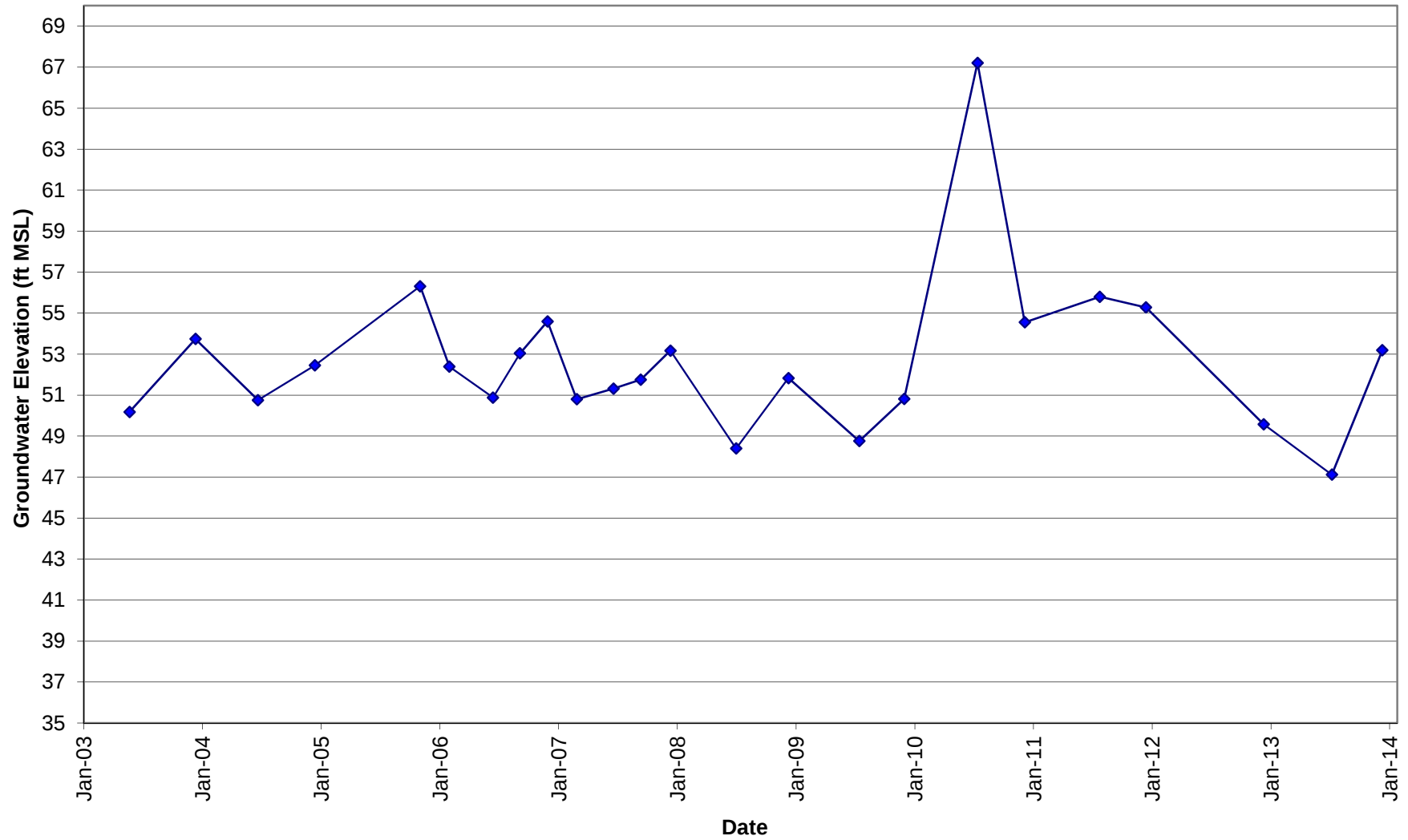
C-4 Historical Groundwater Elevation



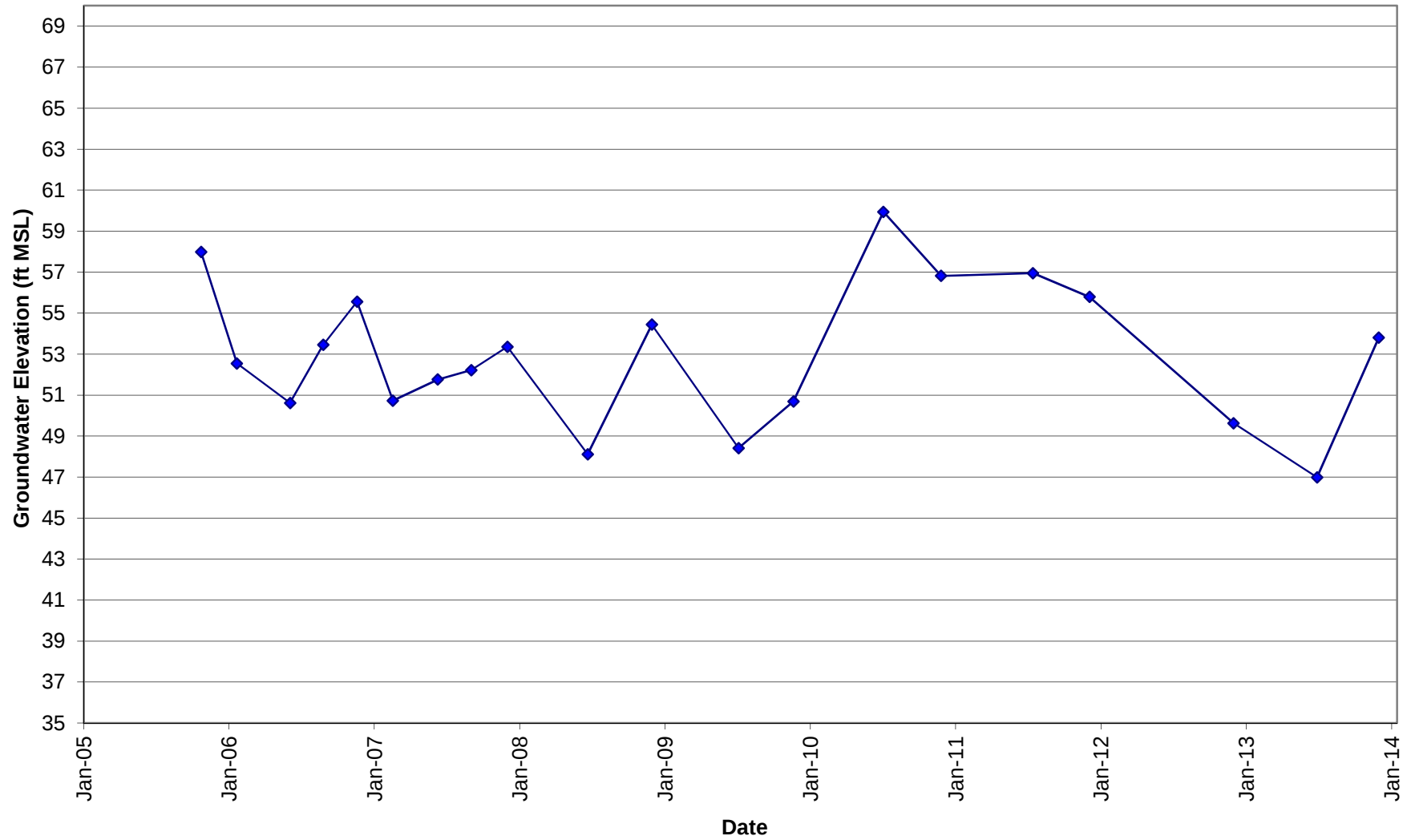
C-5 Historical Groundwater Elevation



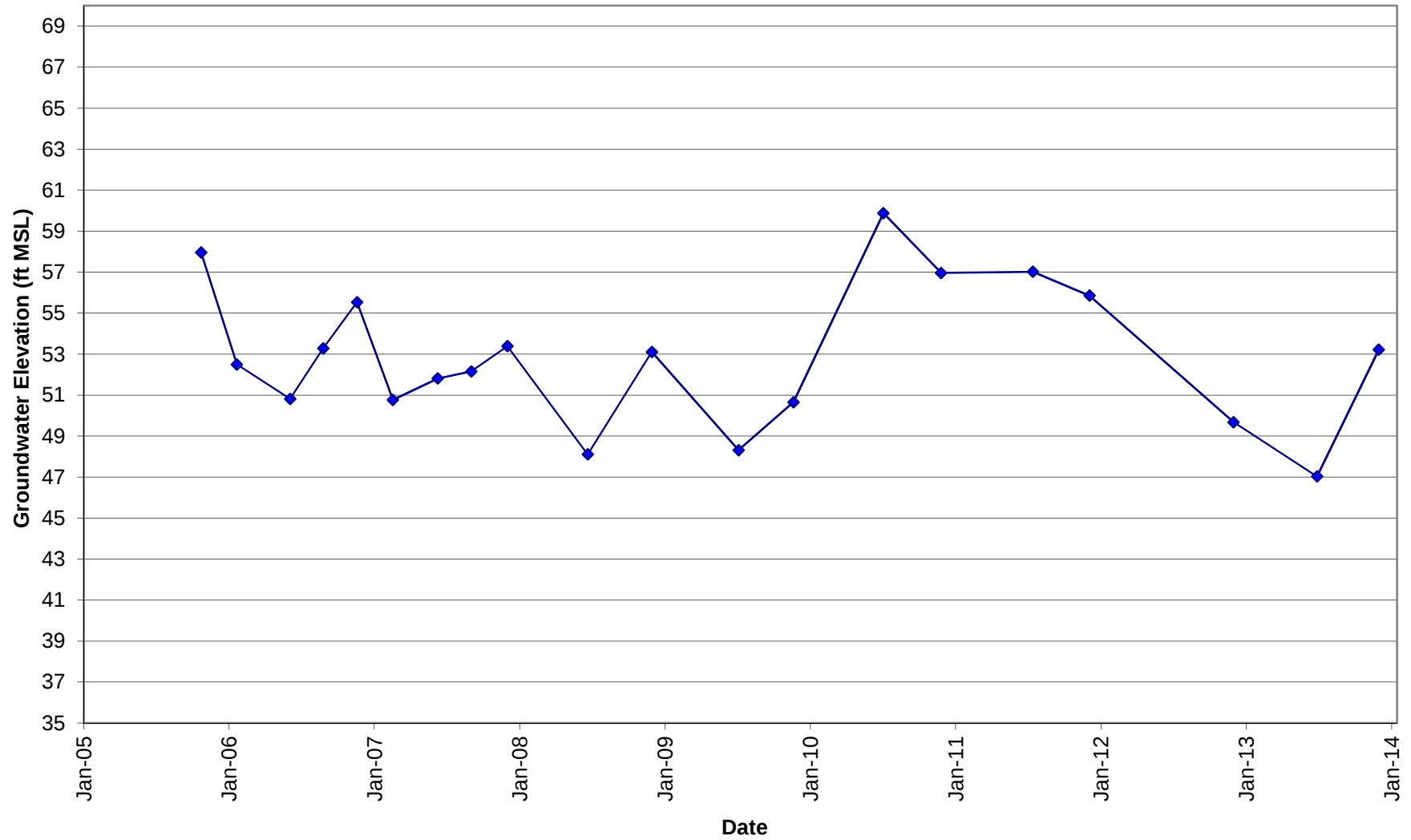
C-6 Historical Groundwater Elevation



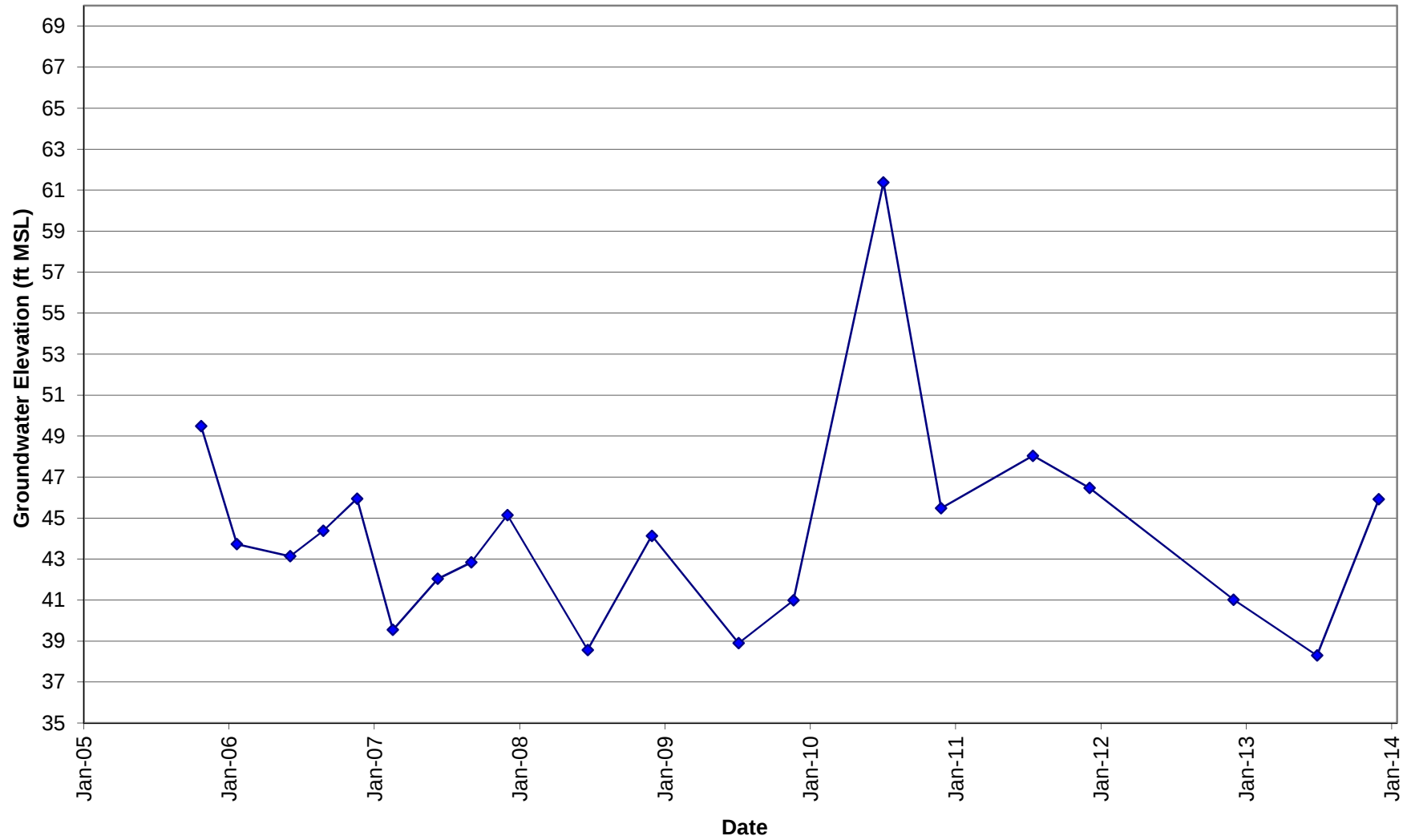
C-7 Historical Groundwater Elevation



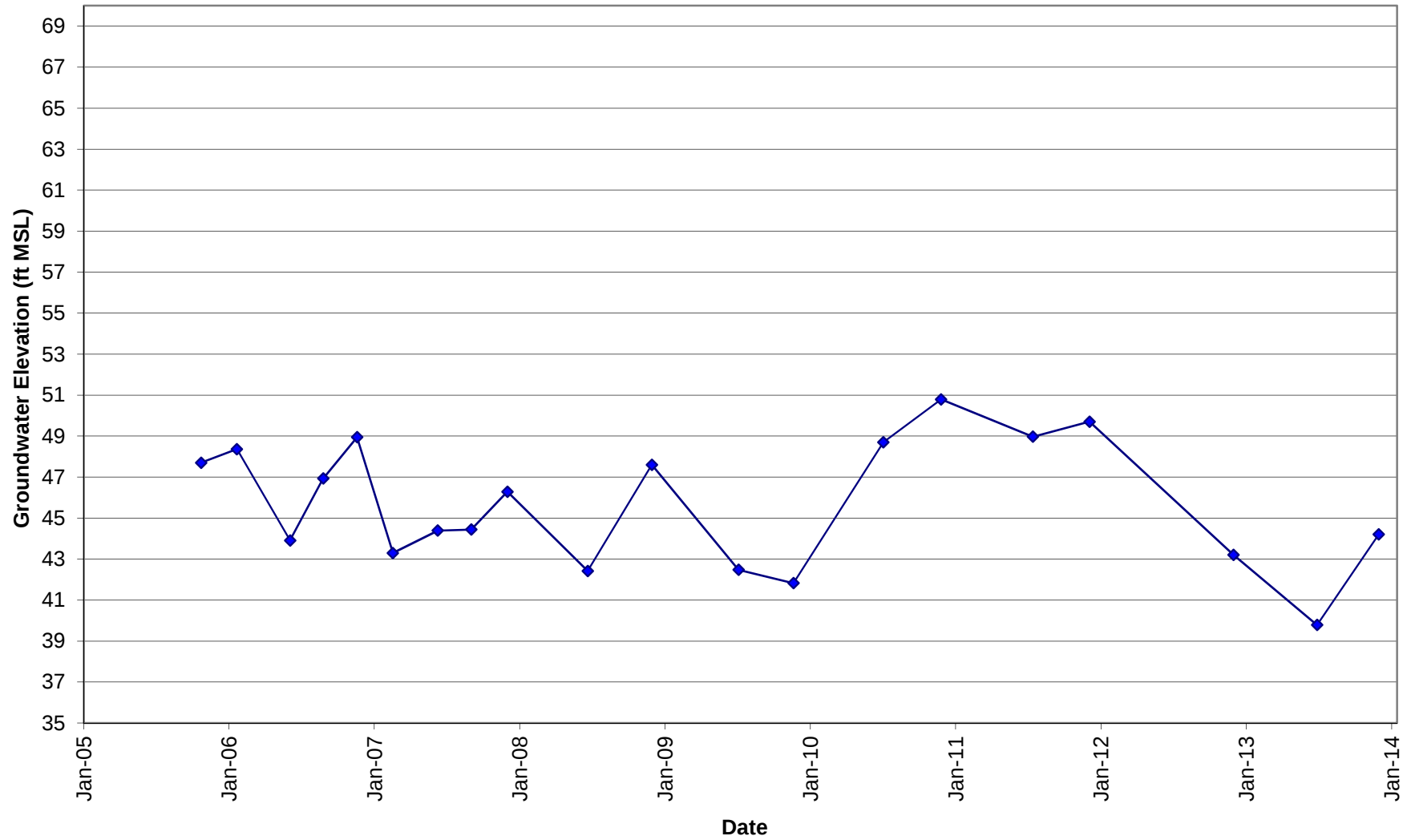
C-8 Historical Groundwater Elevation



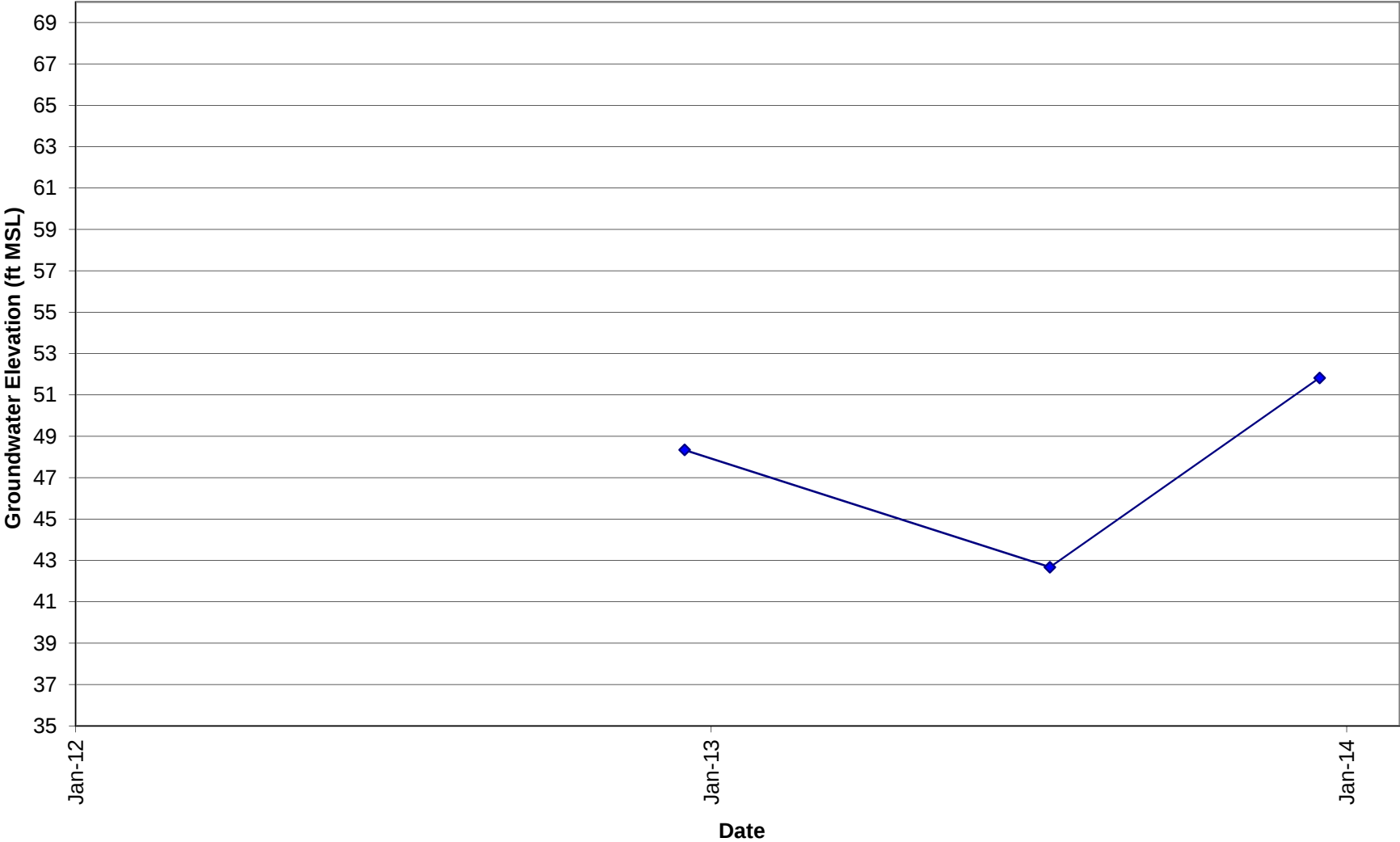
C-9 Historical Groundwater Elevation



C-10 Historical Groundwater Elevation



C-11 Historical Groundwater Elevation



APPENDIX C

January 06, 2014

Tetra Tech GEO - VA
Attn: Mr. Dan Burnell
21335 Signal Hill Plaza; Suite 100
Sterling, VA 20164

Project: GE Caribe - Vieques, PR

Dear Mr. Dan Burnell,

Enclosed is a copy of the laboratory report for the following work order(s) received by TriMatrix Laboratories:

Work Order	Received	Description
1312305	12/19/2013	Laboratory Services

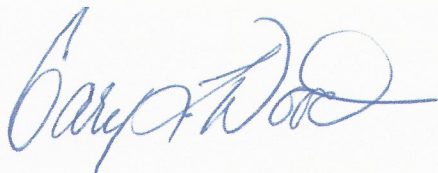
This report relates only to the sample(s) as received. Test results are in compliance with the requirements of the National Environmental Laboratory Accreditation Program (NELAP) and/or one of the following certification programs:

ACLASS DoD-ELAP/ISO17025 (#ADE-1542); Arkansas DEP (#88-0730/12-056-0); Florida DEP (#E87622-24); Georgia EPD (#E87622-24); Illinois DEP (#200026/003059); Kansas DPH (#E-10302); Kentucky DEP (#0021); Louisiana DEP (#83658); Michigan DPH (#0034); Minnesota DPH (#491715); New York ELAP (#11776/48855); North Carolina DNRE (#659); Texas CEQ (#T104704495-13-3); Virginia DCLS (#460153/1622); Wisconsin DNR (#999472650); USDA Soil Import Permit (#P330-12-00236).

Any qualification or narration of results, including sample acceptance requirements and test exceptions to the above referenced programs, is presented in the Statement of Data Qualifications and Project Technical Narrative sections of this report. Estimates of analytical uncertainties and certification documents for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,



Gary L. Wood
Project Chemist



PROJECT TECHNICAL NARRATIVE(s)**Total Metals by EPA 6000/7000 Series Methods**

Narrative: The analyte concentration in the associated MB was greater than the MDL but less than the RL. The positive sample result, which was greater than 5 times the MB value, is not qualified.

Analysis: USEPA-6010C

Sample/Analyte: 1312305-04 C-4 Sodium
1312305-07 C-7 Sodium

Narrative: This analyte was not present in this sample at a concentration greater than 50 times the MDL, therefore serial dilution is not required.

Analysis: USEPA-6010C

Sample/Analyte: 1312305-04 C-4 Sodium

Narrative: Matrix QC results are not available due to sample dilution.

Analysis: USEPA-6010C

Sample/Analyte: 1312305-04 C-4 Sodium

Narrative: The MS and/or MSD recovery was outside the control limit. The non-spiked sample concentration for the same analyte was greater than or equal to 4 times the spiked amount; matrix QC results are not available.

Analysis: USEPA-6010C

Sample/Analyte: 1312305-04 C-4 Calcium

STATEMENT OF DATA QUALIFICATIONS**Dissolved Gases in Water by RSK-175 Headspace Analysis**

Qualification: The analyte concentration in the associated MB was greater than the MDL but less than the RL. The positive sample result, which was less than 5 times the MB value, is considered estimated.

Analysis: RSK-175

Sample/Analyte: 1312305-05

C-5

Ethylene

STATEMENT OF DATA QUALIFICATIONS

Volatile Organic Compounds by EPA Method 8260B

Qualification: The LCS recovery exceeded the upper control limit. Positive results for this analyte in all samples in the associated QC batch are considered estimated. Non-detectable results are not qualified.

Analysis: USEPA-8260B

Sample/Analyte:	1312305-07RE1	C-7	Carbon Disulfide
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Qualification: Concentration exceeds calibration range

Analysis: USEPA-8260B

Sample/Analyte:	1312305-07	C-7	1,2-Dichloroethene (Total)
	1312305-07	C-7	cis-1,2-Dichloroethene

Qualification: The result for this analyte was above the linear range of the initial calibration curve and must be considered as estimated "E".

Analysis: USEPA-8260B

Sample/Analyte:	1312305-07	C-7	1,2-Dichloroethene (Total)
	1312305-07	C-7	cis-1,2-Dichloroethene

Qualification: The corresponding CCV for this analytical batch had a recovery exceeding the upper control limit of the method. A positive result for this analyte in any associated samples are considered estimated. Non-detectable results are not qualified.

Analysis: USEPA-8260B

Sample/Analyte:	1312305-07RE1	C-7	Carbon Disulfide
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Qualification: The analyte concentration in the associated MB was greater than the MDL but less than the RL. The positive sample result, which was less than 5 times the MB value, is considered estimated.

Analysis: USEPA-8260B

Sample/Analyte:	1312305-08	Trip Blank TM1455	Acetone
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ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-1**
 Lab Sample ID: **1312305-01**
 Matrix: Water

Work Order: **1312305**
 Description: Laboratory Services
 Sampled: 12/17/13 9:35
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00

Dissolved Gases in Water by RSK-175 Headspace Analysis

Analyte	Analytical Result	RL	MDL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Ethane	1.0 U	1.0	0.24	ug/L	1	RSK-175	12/27/13 11:12	JMF	1313729
Methane	110	2.0	0.58	ug/L	4	RSK-175	12/27/13 11:18	JMF	1313729
Ethylene	1.0 U	1.0	0.25	ug/L	1	RSK-175	12/27/13 11:12	JMF	1313729

ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312305
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	C-1	Sampled:	12/17/13 9:35
Lab Sample ID:	1312305-01	Sampled By:	Justin Cooper
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/27/13 13:00 By: BAG
Dilution Factor:	1	Analyzed:	12/27/13 16:10 By: BAG
QC Batch:	1313783	Analytical Batch:	3L30030

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL	MDL
67-64-1	Acetone	10U	10	1.7
71-43-2	Benzene	1.0U	1.0	0.32
108-86-1	Bromobenzene	1.0U	1.0	0.11
74-97-5	Bromochloromethane	1.0U	1.0	0.30
75-27-4	Bromodichloromethane	1.0U	1.0	0.12
75-25-2	Bromoform	1.0U	1.0	0.24
74-83-9	Bromomethane	1.0U	1.0	0.23
104-51-8	n-Butylbenzene	1.0U	1.0	0.20
135-98-8	sec-Butylbenzene	1.0U	1.0	0.23
98-06-6	tert-Butylbenzene	1.0U	1.0	0.25
75-15-0	Carbon Disulfide	5.0U	5.0	0.28
56-23-5	Carbon Tetrachloride	1.0U	1.0	0.23
108-90-7	Chlorobenzene	1.0U	1.0	0.21
75-00-3	Chloroethane	1.0U	1.0	0.22
67-66-3	Chloroform	1.0U	1.0	0.26
74-87-3	Chloromethane	1.0U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0U	1.0	0.27
106-43-4	4-Chlorotoluene	1.0U	1.0	0.18
124-48-1	Dibromochloromethane	1.0U	1.0	0.14
106-93-4	1,2-Dibromoethane	5.0U	5.0	0.23
74-95-3	Dibromomethane	1.0U	1.0	0.15
95-50-1	1,2-Dichlorobenzene	1.0U	1.0	0.12
541-73-1	1,3-Dichlorobenzene	1.0U	1.0	0.17
106-46-7	1,4-Dichlorobenzene	1.0U	1.0	0.11
75-71-8	Dichlorodifluoromethane	10U	10	0.23
75-34-3	1,1-Dichloroethane	1.0U	1.0	0.28
107-06-2	1,2-Dichloroethane	1.0U	1.0	0.15
75-35-4	1,1-Dichloroethene	1.0U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	1.0U	1.0	0.20

Continued on next page

ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312305
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	C-1	Sampled:	12/17/13 9:35
Lab Sample ID:	1312305-01	Sampled By:	Justin Cooper
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/27/13 13:00 By: BAG
Dilution Factor:	1	Analyzed:	12/27/13 16:10 By: BAG
QC Batch:	1313783	Analytical Batch:	3L30030

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL	MDL
156-60-5	trans-1,2-Dichloroethene	1.0U	1.0	0.22
540-59-0	1,2-Dichloroethene (Total)	2.0U	2.0	0.42
78-87-5	1,2-Dichloropropane	1.0U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0U	1.0	0.13
594-20-7	2,2-Dichloropropane	1.0U	1.0	0.30
563-58-6	1,1-Dichloropropene	1.0U	1.0	0.27
10061-01-5	cis-1,3-Dichloropropene	1.0U	1.0	0.28
10061-02-6	trans-1,3-Dichloropropene	1.0U	1.0	0.14
100-41-4	Ethylbenzene	1.0U	1.0	0.27
591-78-6	2-Hexanone	10U	10	1.5
98-82-8	Isopropylbenzene	1.0U	1.0	0.23
99-87-6	4-Isopropyltoluene	1.0U	1.0	0.30
1634-04-4	Methyl tert-Butyl Ether	5.0U	5.0	0.10
75-09-2	Methylene Chloride	5.0U	5.0	0.24
78-93-3	2-Butanone (MEK)	10U	10	1.6
108-10-1	4-Methyl-2-pentanone (MIBK)	10U	10	1.4
103-65-1	n-Propylbenzene	1.0U	1.0	0.14
100-42-5	Styrene	1.0U	1.0	0.12
630-20-6	1,1,1,2-Tetrachloroethane	1.0U	1.0	0.18
79-34-5	1,1,2,2-Tetrachloroethane	1.0U	1.0	0.22
127-18-4	Tetrachloroethene	1.0U	1.0	0.16
108-88-3	Toluene	1.0U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0U	1.0	0.30
79-00-5	1,1,2-Trichloroethane	1.0U	1.0	0.22
79-01-6	Trichloroethene	1.0U	1.0	0.24
75-69-4	Trichlorofluoromethane	1.0U	1.0	0.11
96-18-4	1,2,3-Trichloropropane	1.0U	1.0	0.27
95-63-6	1,2,4-Trimethylbenzene	1.0U	1.0	0.19
108-67-8	1,3,5-Trimethylbenzene	1.0U	1.0	0.20
108-05-4	Vinyl Acetate	10U	10	0.29
75-01-4	Vinyl Chloride	2.0U	2.0	0.14

Continued on next page

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-1**
 Lab Sample ID: **1312305-01**
 Matrix: Water
 Unit: ug/L
 Dilution Factor: 1
 QC Batch: 1313783

Work Order: **1312305**
 Description: Laboratory Services
 Sampled: 12/17/13 9:35
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00
 Prepared: 12/27/13 13:00 By: BAG
 Analyzed: 12/27/13 16:10 By: BAG
 Analytical Batch: 3L30030

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL	MDL
179601-23-1	Xylene, Meta + Para	2.0U	2.0	0.21
95-47-6	Xylene, Ortho	1.0U	1.0	0.23
1330-20-7	Xylene (Total)	3.0U	3.0	0.44

Surrogates:
% Recovery
Control Limits
Dibromofluoromethane
99
85-118
1,2-Dichloroethane-d4
101
87-122
Toluene-d8
100
85-113
4-Bromofluorobenzene
100
82-110

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-1**
 Lab Sample ID: **1312305-01**
 Matrix: Water

Work Order: **1312305**
 Description: Laboratory Services
 Sampled: 12/17/13 9:35
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	MDL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	28	1.0	0.25	mg/L	1	SM 4500-Cl E-2011	12/30/13 07:58	LMA	1313768
Carbon, Total Organic	1.9	0.50	0.13	mg/L	1	SM 5310 C-2011	12/26/13 20:22	KAR	1313744

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-2**
 Lab Sample ID: **1312305-02**
 Matrix: Water

Work Order: **1312305**
 Description: Laboratory Services
 Sampled: 12/17/13 10:05
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00

Dissolved Gases in Water by RSK-175 Headspace Analysis

Analyte	Analytical Result	RL	MDL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Ethane	1.0 U	1.0	0.24	ug/L	1	RSK-175	12/27/13 11:22	JMF	1313729
Methane	0.53	0.50	0.14	ug/L	1	RSK-175	12/27/13 11:22	JMF	1313729
Ethylene	1.0 U	1.0	0.25	ug/L	1	RSK-175	12/27/13 11:22	JMF	1313729

ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312305
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	C-2	Sampled:	12/17/13 10:05
Lab Sample ID:	1312305-02	Sampled By:	Justin Cooper
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/27/13 13:00 By: BAG
Dilution Factor:	1	Analyzed:	12/27/13 16:37 By: BAG
QC Batch:	1313783	Analytical Batch:	3L30030

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL	MDL
67-64-1	Acetone	10U	10	1.7
71-43-2	Benzene	1.0U	1.0	0.32
108-86-1	Bromobenzene	1.0U	1.0	0.11
74-97-5	Bromochloromethane	1.0U	1.0	0.30
75-27-4	Bromodichloromethane	1.0U	1.0	0.12
75-25-2	Bromoform	1.0U	1.0	0.24
74-83-9	Bromomethane	1.0U	1.0	0.23
104-51-8	n-Butylbenzene	1.0U	1.0	0.20
135-98-8	sec-Butylbenzene	1.0U	1.0	0.23
98-06-6	tert-Butylbenzene	1.0U	1.0	0.25
75-15-0	Carbon Disulfide	5.0U	5.0	0.28
56-23-5	Carbon Tetrachloride	1.0U	1.0	0.23
108-90-7	Chlorobenzene	1.0U	1.0	0.21
75-00-3	Chloroethane	1.0U	1.0	0.22
67-66-3	Chloroform	1.0U	1.0	0.26
74-87-3	Chloromethane	1.0U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0U	1.0	0.27
106-43-4	4-Chlorotoluene	1.0U	1.0	0.18
124-48-1	Dibromochloromethane	1.0U	1.0	0.14
106-93-4	1,2-Dibromoethane	5.0U	5.0	0.23
74-95-3	Dibromomethane	1.0U	1.0	0.15
95-50-1	1,2-Dichlorobenzene	1.0U	1.0	0.12
541-73-1	1,3-Dichlorobenzene	1.0U	1.0	0.17
106-46-7	1,4-Dichlorobenzene	1.0U	1.0	0.11
75-71-8	Dichlorodifluoromethane	10U	10	0.23
75-34-3	1,1-Dichloroethane	0.39J	1.0	0.28
107-06-2	1,2-Dichloroethane	1.0U	1.0	0.15
75-35-4	1,1-Dichloroethene	0.72J	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.64J	1.0	0.20

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ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312305
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	C-2	Sampled:	12/17/13 10:05
Lab Sample ID:	1312305-02	Sampled By:	Justin Cooper
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/27/13 13:00 By: BAG
Dilution Factor:	1	Analyzed:	12/27/13 16:37 By: BAG
QC Batch:	1313783	Analytical Batch:	3L30030

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL	MDL
156-60-5	trans-1,2-Dichloroethene	1.0U	1.0	0.22
540-59-0	1,2-Dichloroethene (Total)	0.64J	2.0	0.42
78-87-5	1,2-Dichloropropane	1.0U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0U	1.0	0.13
594-20-7	2,2-Dichloropropane	1.0U	1.0	0.30
563-58-6	1,1-Dichloropropene	1.0U	1.0	0.27
10061-01-5	cis-1,3-Dichloropropene	1.0U	1.0	0.28
10061-02-6	trans-1,3-Dichloropropene	1.0U	1.0	0.14
100-41-4	Ethylbenzene	1.0U	1.0	0.27
591-78-6	2-Hexanone	10U	10	1.5
98-82-8	Isopropylbenzene	1.0U	1.0	0.23
99-87-6	4-Isopropyltoluene	1.0U	1.0	0.30
1634-04-4	Methyl tert-Butyl Ether	5.0U	5.0	0.10
75-09-2	Methylene Chloride	5.0U	5.0	0.24
78-93-3	2-Butanone (MEK)	10U	10	1.6
108-10-1	4-Methyl-2-pentanone (MIBK)	10U	10	1.4
103-65-1	n-Propylbenzene	1.0U	1.0	0.14
100-42-5	Styrene	1.0U	1.0	0.12
630-20-6	1,1,1,2-Tetrachloroethane	1.0U	1.0	0.18
79-34-5	1,1,2,2-Tetrachloroethane	1.0U	1.0	0.22
127-18-4	Tetrachloroethene	1.0U	1.0	0.16
108-88-3	Toluene	1.0U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0U	1.0	0.30
79-00-5	1,1,2-Trichloroethane	1.0U	1.0	0.22
79-01-6	Trichloroethene	1.5	1.0	0.24
75-69-4	Trichlorofluoromethane	1.0U	1.0	0.11
96-18-4	1,2,3-Trichloropropane	1.0U	1.0	0.27
95-63-6	1,2,4-Trimethylbenzene	1.0U	1.0	0.19
108-67-8	1,3,5-Trimethylbenzene	1.0U	1.0	0.20
108-05-4	Vinyl Acetate	10U	10	0.29
75-01-4	Vinyl Chloride	2.0U	2.0	0.14

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ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312305
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	C-2	Sampled:	12/17/13 10:05
Lab Sample ID:	1312305-02	Sampled By:	Justin Cooper
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/27/13 13:00 By: BAG
Dilution Factor:	1	Analyzed:	12/27/13 16:37 By: BAG
QC Batch:	1313783	Analytical Batch:	3L30030

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL	MDL
179601-23-1	Xylene, Meta + Para	2.0U	2.0	0.21
95-47-6	Xylene, Ortho	1.0U	1.0	0.23
1330-20-7	Xylene (Total)	3.0U	3.0	0.44

Surrogates:
% Recovery
Control Limits
Dibromofluoromethane
100
85-118
1,2-Dichloroethane-d4
102
87-122
Toluene-d8
100
85-113
4-Bromofluorobenzene
100
82-110

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-2**
 Lab Sample ID: **1312305-02**
 Matrix: Water

Work Order: **1312305**
 Description: Laboratory Services
 Sampled: 12/17/13 10:05
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	MDL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	13	1.0	0.25	mg/L	1	SM 4500-Cl E-2011	12/30/13 08:05	LMA	1313768
Carbon, Total Organic	1.1	0.50	0.13	mg/L	1	SM 5310 C-2011	12/26/13 21:23	KAR	1313744

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-3**
 Lab Sample ID: **1312305-03**
 Matrix: Water

Work Order: **1312305**
 Description: Laboratory Services
 Sampled: 12/17/13 10:30
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00

Dissolved Gases in Water by RSK-175 Headspace Analysis

Analyte	Analytical Result	RL	MDL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Ethane	0.71 J	1.0	0.24	ug/L	1	RSK-175	12/27/13 11:26	JMF	1313729
Methane	2.5	0.50	0.14	ug/L	1	RSK-175	12/27/13 11:26	JMF	1313729
Ethylene	1.0 U	1.0	0.25	ug/L	1	RSK-175	12/27/13 11:26	JMF	1313729

ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312305
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	C-3	Sampled:	12/17/13 10:30
Lab Sample ID:	1312305-03	Sampled By:	Justin Cooper
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/27/13 13:00 By: BAG
Dilution Factor:	1	Analyzed:	12/27/13 17:04 By: BAG
QC Batch:	1313783	Analytical Batch:	3L30030

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL	MDL
67-64-1	Acetone	10U	10	1.7
71-43-2	Benzene	1.0U	1.0	0.32
108-86-1	Bromobenzene	1.0U	1.0	0.11
74-97-5	Bromochloromethane	1.0U	1.0	0.30
75-27-4	Bromodichloromethane	1.0U	1.0	0.12
75-25-2	Bromoform	1.0U	1.0	0.24
74-83-9	Bromomethane	1.0U	1.0	0.23
104-51-8	n-Butylbenzene	1.0U	1.0	0.20
135-98-8	sec-Butylbenzene	1.0U	1.0	0.23
98-06-6	tert-Butylbenzene	1.0U	1.0	0.25
75-15-0	Carbon Disulfide	5.0U	5.0	0.28
56-23-5	Carbon Tetrachloride	1.0U	1.0	0.23
108-90-7	Chlorobenzene	1.0U	1.0	0.21
75-00-3	Chloroethane	1.0U	1.0	0.22
67-66-3	Chloroform	1.0U	1.0	0.26
74-87-3	Chloromethane	1.0U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0U	1.0	0.27
106-43-4	4-Chlorotoluene	1.0U	1.0	0.18
124-48-1	Dibromochloromethane	1.0U	1.0	0.14
106-93-4	1,2-Dibromoethane	5.0U	5.0	0.23
74-95-3	Dibromomethane	1.0U	1.0	0.15
95-50-1	1,2-Dichlorobenzene	1.0U	1.0	0.12
541-73-1	1,3-Dichlorobenzene	1.0U	1.0	0.17
106-46-7	1,4-Dichlorobenzene	1.0U	1.0	0.11
75-71-8	Dichlorodifluoromethane	10U	10	0.23
75-34-3	1,1-Dichloroethane	1.0U	1.0	0.28
107-06-2	1,2-Dichloroethane	1.0U	1.0	0.15
75-35-4	1,1-Dichloroethene	1.0U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	1.0U	1.0	0.20

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ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312305
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	C-3	Sampled:	12/17/13 10:30
Lab Sample ID:	1312305-03	Sampled By:	Justin Cooper
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/27/13 13:00 By: BAG
Dilution Factor:	1	Analyzed:	12/27/13 17:04 By: BAG
QC Batch:	1313783	Analytical Batch:	3L30030

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL	MDL
156-60-5	trans-1,2-Dichloroethene	1.0U	1.0	0.22
540-59-0	1,2-Dichloroethene (Total)	2.0U	2.0	0.42
78-87-5	1,2-Dichloropropane	1.0U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0U	1.0	0.13
594-20-7	2,2-Dichloropropane	1.0U	1.0	0.30
563-58-6	1,1-Dichloropropene	1.0U	1.0	0.27
10061-01-5	cis-1,3-Dichloropropene	1.0U	1.0	0.28
10061-02-6	trans-1,3-Dichloropropene	1.0U	1.0	0.14
100-41-4	Ethylbenzene	1.0U	1.0	0.27
591-78-6	2-Hexanone	10U	10	1.5
98-82-8	Isopropylbenzene	1.0U	1.0	0.23
99-87-6	4-Isopropyltoluene	1.0U	1.0	0.30
1634-04-4	Methyl tert-Butyl Ether	5.0U	5.0	0.10
75-09-2	Methylene Chloride	5.0U	5.0	0.24
78-93-3	2-Butanone (MEK)	10U	10	1.6
108-10-1	4-Methyl-2-pentanone (MIBK)	10U	10	1.4
103-65-1	n-Propylbenzene	1.0U	1.0	0.14
100-42-5	Styrene	1.0U	1.0	0.12
630-20-6	1,1,1,2-Tetrachloroethane	1.0U	1.0	0.18
79-34-5	1,1,2,2-Tetrachloroethane	1.0U	1.0	0.22
127-18-4	Tetrachloroethene	1.0U	1.0	0.16
108-88-3	Toluene	1.0U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0U	1.0	0.30
79-00-5	1,1,2-Trichloroethane	1.0U	1.0	0.22
79-01-6	Trichloroethene	1.0U	1.0	0.24
75-69-4	Trichlorofluoromethane	1.0U	1.0	0.11
96-18-4	1,2,3-Trichloropropane	1.0U	1.0	0.27
95-63-6	1,2,4-Trimethylbenzene	1.0U	1.0	0.19
108-67-8	1,3,5-Trimethylbenzene	1.0U	1.0	0.20
108-05-4	Vinyl Acetate	10U	10	0.29
75-01-4	Vinyl Chloride	2.0U	2.0	0.14

Continued on next page

ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312305
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	C-3	Sampled:	12/17/13 10:30
Lab Sample ID:	1312305-03	Sampled By:	Justin Cooper
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/27/13 13:00 By: BAG
Dilution Factor:	1	Analyzed:	12/27/13 17:04 By: BAG
QC Batch:	1313783	Analytical Batch:	3L30030

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL	MDL
179601-23-1	Xylene, Meta + Para	2.0U	2.0	0.21
95-47-6	Xylene, Ortho	1.0U	1.0	0.23
1330-20-7	Xylene (Total)	3.0U	3.0	0.44

Surrogates:
% Recovery
Control Limits
Dibromofluoromethane
100
85-118
1,2-Dichloroethane-d4
101
87-122
Toluene-d8
99
85-113
4-Bromofluorobenzene
101
82-110

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-3**
 Lab Sample ID: **1312305-03**
 Matrix: Water

Work Order: **1312305**
 Description: Laboratory Services
 Sampled: 12/17/13 10:30
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	MDL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	11	1.0	0.25	mg/L	1	SM 4500-Cl E-2011	12/30/13 08:05	LMA	1313768
Carbon, Total Organic	1.2	0.50	0.13	mg/L	1	SM 5310 C-2011	12/26/13 21:35	KAR	1313744

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-4**
 Lab Sample ID: **1312305-04**
 Matrix: Water

Work Order: **1312305**
 Description: Laboratory Services
 Sampled: 12/17/13 11:45
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00

Dissolved Gases in Water by RSK-175 Headspace Analysis

Analyte	Analytical Result	RL	MDL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Ethane	0.32 J	1.0	0.24	ug/L	1	RSK-175	12/27/13 11:30	JMF	1313729
Methane	0.21 J	0.50	0.14	ug/L	1	RSK-175	12/27/13 11:30	JMF	1313729
Ethylene	1.0 U	1.0	0.25	ug/L	1	RSK-175	12/27/13 11:30	JMF	1313729

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-4**
 Lab Sample ID: **1312305-04**
 Matrix: Water
 Unit: ug/L
 Dilution Factor: 1
 QC Batch: 1313783

Work Order: **1312305**
 Description: Laboratory Services
 Sampled: 12/17/13 11:45
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00
 Prepared: 12/27/13 13:00 By: BAG
 Analyzed: 12/27/13 17:31 By: BAG
 Analytical Batch: 3L30030

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL	MDL
67-64-1	Acetone	10U	10	1.7
71-43-2	Benzene	1.0U	1.0	0.32
108-86-1	Bromobenzene	1.0U	1.0	0.11
74-97-5	Bromochloromethane	1.0U	1.0	0.30
75-27-4	Bromodichloromethane	1.0U	1.0	0.12
75-25-2	Bromoform	1.0U	1.0	0.24
74-83-9	Bromomethane	1.0U	1.0	0.23
104-51-8	n-Butylbenzene	1.0U	1.0	0.20
135-98-8	sec-Butylbenzene	1.0U	1.0	0.23
98-06-6	tert-Butylbenzene	1.0U	1.0	0.25
75-15-0	Carbon Disulfide	5.0U	5.0	0.28
56-23-5	Carbon Tetrachloride	1.0U	1.0	0.23
108-90-7	Chlorobenzene	1.0U	1.0	0.21
75-00-3	Chloroethane	1.0U	1.0	0.22
67-66-3	Chloroform	1.0U	1.0	0.26
74-87-3	Chloromethane	1.0U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0U	1.0	0.27
106-43-4	4-Chlorotoluene	1.0U	1.0	0.18
124-48-1	Dibromochloromethane	1.0U	1.0	0.14
106-93-4	1,2-Dibromoethane	5.0U	5.0	0.23
74-95-3	Dibromomethane	1.0U	1.0	0.15
95-50-1	1,2-Dichlorobenzene	1.0U	1.0	0.12
541-73-1	1,3-Dichlorobenzene	1.0U	1.0	0.17
106-46-7	1,4-Dichlorobenzene	1.0U	1.0	0.11
75-71-8	Dichlorodifluoromethane	10U	10	0.23
75-34-3	1,1-Dichloroethane	24	1.0	0.28
107-06-2	1,2-Dichloroethane	1.0U	1.0	0.15
75-35-4	1,1-Dichloroethene	5.0	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	6.3	1.0	0.20

Continued on next page

ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312305
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	C-4	Sampled:	12/17/13 11:45
Lab Sample ID:	1312305-04	Sampled By:	Justin Cooper
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/27/13 13:00 By: BAG
Dilution Factor:	1	Analyzed:	12/27/13 17:31 By: BAG
QC Batch:	1313783	Analytical Batch:	3L30030

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL	MDL
156-60-5	trans-1,2-Dichloroethene	1.0U	1.0	0.22
540-59-0	1,2-Dichloroethene (Total)	6.3	2.0	0.42
78-87-5	1,2-Dichloropropane	1.0U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0U	1.0	0.13
594-20-7	2,2-Dichloropropane	1.0U	1.0	0.30
563-58-6	1,1-Dichloropropene	1.0U	1.0	0.27
10061-01-5	cis-1,3-Dichloropropene	1.0U	1.0	0.28
10061-02-6	trans-1,3-Dichloropropene	1.0U	1.0	0.14
100-41-4	Ethylbenzene	1.0U	1.0	0.27
591-78-6	2-Hexanone	10U	10	1.5
98-82-8	Isopropylbenzene	1.0U	1.0	0.23
99-87-6	4-Isopropyltoluene	1.0U	1.0	0.30
1634-04-4	Methyl tert-Butyl Ether	5.0U	5.0	0.10
75-09-2	Methylene Chloride	5.0U	5.0	0.24
78-93-3	2-Butanone (MEK)	10U	10	1.6
108-10-1	4-Methyl-2-pentanone (MIBK)	10U	10	1.4
103-65-1	n-Propylbenzene	1.0U	1.0	0.14
100-42-5	Styrene	1.0U	1.0	0.12
630-20-6	1,1,1,2-Tetrachloroethane	1.0U	1.0	0.18
79-34-5	1,1,2,2-Tetrachloroethane	1.0U	1.0	0.22
127-18-4	Tetrachloroethene	1.8	1.0	0.16
108-88-3	Toluene	1.0U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0U	1.0	0.30
79-00-5	1,1,2-Trichloroethane	1.0U	1.0	0.22
79-01-6	Trichloroethene	44	1.0	0.24
75-69-4	Trichlorofluoromethane	1.0U	1.0	0.11
96-18-4	1,2,3-Trichloropropane	1.0U	1.0	0.27
95-63-6	1,2,4-Trimethylbenzene	1.0U	1.0	0.19
108-67-8	1,3,5-Trimethylbenzene	1.0U	1.0	0.20
108-05-4	Vinyl Acetate	10U	10	0.29
75-01-4	Vinyl Chloride	2.0U	2.0	0.14

Continued on next page

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-4**
 Lab Sample ID: **1312305-04**
 Matrix: Water
 Unit: ug/L
 Dilution Factor: 1
 QC Batch: 1313783

Work Order: **1312305**
 Description: Laboratory Services
 Sampled: 12/17/13 11:45
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00
 Prepared: 12/27/13 13:00 By: BAG
 Analyzed: 12/27/13 17:31 By: BAG
 Analytical Batch: 3L30030

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL	MDL
179601-23-1	Xylene, Meta + Para	2.0U	2.0	0.21
95-47-6	Xylene, Ortho	1.0U	1.0	0.23
1330-20-7	Xylene (Total)	3.0U	3.0	0.44

Surrogates:
% Recovery
Control Limits
Dibromofluoromethane
100
85-118
1,2-Dichloroethane-d4
102
87-122
Toluene-d8
100
85-113
4-Bromofluorobenzene
101
82-110

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-4**
 Lab Sample ID: **1312305-04**
 Matrix: Water

Work Order: **1312305**
 Description: Laboratory Services
 Sampled: 12/17/13 11:45
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00

Total Metals by EPA 6000/7000 Series Methods

Analyte	Analytical Result	RL	MDL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Calcium	100	0.50	0.23	mg/L	1	USEPA-6010C	12/30/13 11:40	CKD	1313615
Magnesium	52	0.50	0.14	mg/L	1	USEPA-6010C	12/30/13 11:40	CKD	1313615
Sodium	330	50	13	mg/L	100	USEPA-6010C	12/30/13 14:39	CKD	1313615

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-4**
 Lab Sample ID: **1312305-04**
 Matrix: Water

Work Order: **1312305**
 Description: Laboratory Services
 Sampled: 12/17/13 11:45
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	MDL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Carbon, Total Organic	3.0	0.50	0.13	mg/L	1	SM 5310 C-2011	12/26/13 21:46	KAR	1313744
Chloride	330	5.0	1.2	mg/L	5	SM 4500-Cl E-2011	12/30/13 08:32	LMA	1313768

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-5**
 Lab Sample ID: **1312305-05**
 Matrix: Water

Work Order: **1312305**
 Description: Laboratory Services
 Sampled: 12/17/13 13:30
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00

Dissolved Gases in Water by RSK-175 Headspace Analysis

Analyte	Analytical Result	RL	MDL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Ethane	1.0 U	1.0	0.24	ug/L	1	RSK-175	12/27/13 11:33	JMF	1313729
Methane	11	0.50	0.14	ug/L	1	RSK-175	12/27/13 11:33	JMF	1313729
*Ethylene	0.39 J	1.0	0.25	ug/L	1	RSK-175	12/27/13 11:33	JMF	1313729

*See Statement of Data Qualifications

ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312305
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	C-5	Sampled:	12/17/13 13:30
Lab Sample ID:	1312305-05	Sampled By:	Justin Cooper
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/27/13 13:00 By: BAG
Dilution Factor:	1	Analyzed:	12/27/13 17:58 By: BAG
QC Batch:	1313783	Analytical Batch:	3L30030

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL	MDL
67-64-1	Acetone	10U	10	1.7
71-43-2	Benzene	1.0U	1.0	0.32
108-86-1	Bromobenzene	1.0U	1.0	0.11
74-97-5	Bromochloromethane	1.0U	1.0	0.30
75-27-4	Bromodichloromethane	1.0U	1.0	0.12
75-25-2	Bromoform	1.0U	1.0	0.24
74-83-9	Bromomethane	1.0U	1.0	0.23
104-51-8	n-Butylbenzene	1.0U	1.0	0.20
135-98-8	sec-Butylbenzene	1.0U	1.0	0.23
98-06-6	tert-Butylbenzene	1.0U	1.0	0.25
75-15-0	Carbon Disulfide	5.0U	5.0	0.28
56-23-5	Carbon Tetrachloride	1.0U	1.0	0.23
108-90-7	Chlorobenzene	1.0U	1.0	0.21
75-00-3	Chloroethane	1.0U	1.0	0.22
67-66-3	Chloroform	1.0U	1.0	0.26
74-87-3	Chloromethane	1.0U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0U	1.0	0.27
106-43-4	4-Chlorotoluene	1.0U	1.0	0.18
124-48-1	Dibromochloromethane	1.0U	1.0	0.14
106-93-4	1,2-Dibromoethane	5.0U	5.0	0.23
74-95-3	Dibromomethane	1.0U	1.0	0.15
95-50-1	1,2-Dichlorobenzene	1.0U	1.0	0.12
541-73-1	1,3-Dichlorobenzene	1.0U	1.0	0.17
106-46-7	1,4-Dichlorobenzene	1.0U	1.0	0.11
75-71-8	Dichlorodifluoromethane	10U	10	0.23
75-34-3	1,1-Dichloroethane	1.0U	1.0	0.28
107-06-2	1,2-Dichloroethane	1.0U	1.0	0.15
75-35-4	1,1-Dichloroethene	1.0U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.66J	1.0	0.20

Continued on next page

ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312305
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	C-5	Sampled:	12/17/13 13:30
Lab Sample ID:	1312305-05	Sampled By:	Justin Cooper
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/27/13 13:00 By: BAG
Dilution Factor:	1	Analyzed:	12/27/13 17:58 By: BAG
QC Batch:	1313783	Analytical Batch:	3L30030

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL	MDL
156-60-5	trans-1,2-Dichloroethene	1.0U	1.0	0.22
540-59-0	1,2-Dichloroethene (Total)	0.66J	2.0	0.42
78-87-5	1,2-Dichloropropane	1.0U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0U	1.0	0.13
594-20-7	2,2-Dichloropropane	1.0U	1.0	0.30
563-58-6	1,1-Dichloropropene	1.0U	1.0	0.27
10061-01-5	cis-1,3-Dichloropropene	1.0U	1.0	0.28
10061-02-6	trans-1,3-Dichloropropene	1.0U	1.0	0.14
100-41-4	Ethylbenzene	1.0U	1.0	0.27
591-78-6	2-Hexanone	10U	10	1.5
98-82-8	Isopropylbenzene	1.0U	1.0	0.23
99-87-6	4-Isopropyltoluene	1.0U	1.0	0.30
1634-04-4	Methyl tert-Butyl Ether	5.0U	5.0	0.10
75-09-2	Methylene Chloride	5.0U	5.0	0.24
78-93-3	2-Butanone (MEK)	10U	10	1.6
108-10-1	4-Methyl-2-pentanone (MIBK)	10U	10	1.4
103-65-1	n-Propylbenzene	1.0U	1.0	0.14
100-42-5	Styrene	1.0U	1.0	0.12
630-20-6	1,1,1,2-Tetrachloroethane	1.0U	1.0	0.18
79-34-5	1,1,2,2-Tetrachloroethane	1.0U	1.0	0.22
127-18-4	Tetrachloroethene	1.0U	1.0	0.16
108-88-3	Toluene	1.0U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0U	1.0	0.30
79-00-5	1,1,2-Trichloroethane	1.0U	1.0	0.22
79-01-6	Trichloroethene	1.0U	1.0	0.24
75-69-4	Trichlorofluoromethane	1.0U	1.0	0.11
96-18-4	1,2,3-Trichloropropane	1.0U	1.0	0.27
95-63-6	1,2,4-Trimethylbenzene	1.0U	1.0	0.19
108-67-8	1,3,5-Trimethylbenzene	1.0U	1.0	0.20
108-05-4	Vinyl Acetate	10U	10	0.29
75-01-4	Vinyl Chloride	2.0U	2.0	0.14

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ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312305
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	C-5	Sampled:	12/17/13 13:30
Lab Sample ID:	1312305-05	Sampled By:	Justin Cooper
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/27/13 13:00 By: BAG
Dilution Factor:	1	Analyzed:	12/27/13 17:58 By: BAG
QC Batch:	1313783	Analytical Batch:	3L30030

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL	MDL
179601-23-1	Xylene, Meta + Para	2.0U	2.0	0.21
95-47-6	Xylene, Ortho	1.0U	1.0	0.23
1330-20-7	Xylene (Total)	3.0U	3.0	0.44

Surrogates:
% Recovery
Control Limits
Dibromofluoromethane
99
85-118
1,2-Dichloroethane-d4
101
87-122
Toluene-d8
100
85-113
4-Bromofluorobenzene
101
82-110

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-5**
 Lab Sample ID: **1312305-05**
 Matrix: Water

Work Order: **1312305**
 Description: Laboratory Services
 Sampled: 12/17/13 13:30
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	MDL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Carbon, Total Organic	4.7	0.50	0.13	mg/L	1	SM 5310 C-2011	12/26/13 21:57	KAR	1313744
Chloride	310	5.0	1.2	mg/L	5	SM 4500-Cl E-2011	12/30/13 08:32	LMA	1313768

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-6**
 Lab Sample ID: **1312305-06**
 Matrix: Water

Work Order: **1312305**
 Description: Laboratory Services
 Sampled: 12/17/13 14:35
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00

Dissolved Gases in Water by RSK-175 Headspace Analysis

Analyte	Analytical Result	RL	MDL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Ethane	0.26 J	1.0	0.24	ug/L	1	RSK-175	12/27/13 13:00	JMF	1313729
Methane	4.8	0.50	0.14	ug/L	1	RSK-175	12/27/13 13:00	JMF	1313729
Ethylene	1.0 U	1.0	0.25	ug/L	1	RSK-175	12/27/13 13:00	JMF	1313729

ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312305
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	C-6	Sampled:	12/17/13 14:35
Lab Sample ID:	1312305-06	Sampled By:	Justin Cooper
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/27/13 13:00 By: BAG
Dilution Factor:	1	Analyzed:	12/27/13 18:24 By: BAG
QC Batch:	1313783	Analytical Batch:	3L30030

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL	MDL
67-64-1	Acetone	10U	10	1.7
71-43-2	Benzene	1.0U	1.0	0.32
108-86-1	Bromobenzene	1.0U	1.0	0.11
74-97-5	Bromochloromethane	1.0U	1.0	0.30
75-27-4	Bromodichloromethane	1.0U	1.0	0.12
75-25-2	Bromoform	1.0U	1.0	0.24
74-83-9	Bromomethane	1.0U	1.0	0.23
104-51-8	n-Butylbenzene	1.0U	1.0	0.20
135-98-8	sec-Butylbenzene	1.0U	1.0	0.23
98-06-6	tert-Butylbenzene	1.0U	1.0	0.25
75-15-0	Carbon Disulfide	5.0U	5.0	0.28
56-23-5	Carbon Tetrachloride	1.0U	1.0	0.23
108-90-7	Chlorobenzene	1.0U	1.0	0.21
75-00-3	Chloroethane	1.0U	1.0	0.22
67-66-3	Chloroform	1.0U	1.0	0.26
74-87-3	Chloromethane	1.0U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0U	1.0	0.27
106-43-4	4-Chlorotoluene	1.0U	1.0	0.18
124-48-1	Dibromochloromethane	1.0U	1.0	0.14
106-93-4	1,2-Dibromoethane	5.0U	5.0	0.23
74-95-3	Dibromomethane	1.0U	1.0	0.15
95-50-1	1,2-Dichlorobenzene	1.0U	1.0	0.12
541-73-1	1,3-Dichlorobenzene	1.0U	1.0	0.17
106-46-7	1,4-Dichlorobenzene	1.0U	1.0	0.11
75-71-8	Dichlorodifluoromethane	10U	10	0.23
75-34-3	1,1-Dichloroethane	1.2	1.0	0.28
107-06-2	1,2-Dichloroethane	1.0U	1.0	0.15
75-35-4	1,1-Dichloroethene	0.98J	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	1.1	1.0	0.20

Continued on next page

ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312305
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	C-6	Sampled:	12/17/13 14:35
Lab Sample ID:	1312305-06	Sampled By:	Justin Cooper
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/27/13 13:00 By: BAG
Dilution Factor:	1	Analyzed:	12/27/13 18:24 By: BAG
QC Batch:	1313783	Analytical Batch:	3L30030

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL	MDL
156-60-5	trans-1,2-Dichloroethene	1.0U	1.0	0.22
540-59-0	1,2-Dichloroethene (Total)	1.1J	2.0	0.42
78-87-5	1,2-Dichloropropane	1.0U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0U	1.0	0.13
594-20-7	2,2-Dichloropropane	1.0U	1.0	0.30
563-58-6	1,1-Dichloropropene	1.0U	1.0	0.27
10061-01-5	cis-1,3-Dichloropropene	1.0U	1.0	0.28
10061-02-6	trans-1,3-Dichloropropene	1.0U	1.0	0.14
100-41-4	Ethylbenzene	1.0U	1.0	0.27
591-78-6	2-Hexanone	10U	10	1.5
98-82-8	Isopropylbenzene	1.0U	1.0	0.23
99-87-6	4-Isopropyltoluene	1.0U	1.0	0.30
1634-04-4	Methyl tert-Butyl Ether	5.0U	5.0	0.10
75-09-2	Methylene Chloride	5.0U	5.0	0.24
78-93-3	2-Butanone (MEK)	10U	10	1.6
108-10-1	4-Methyl-2-pentanone (MIBK)	10U	10	1.4
103-65-1	n-Propylbenzene	1.0U	1.0	0.14
100-42-5	Styrene	1.0U	1.0	0.12
630-20-6	1,1,1,2-Tetrachloroethane	1.0U	1.0	0.18
79-34-5	1,1,2,2-Tetrachloroethane	1.0U	1.0	0.22
127-18-4	Tetrachloroethene	1.0U	1.0	0.16
108-88-3	Toluene	1.0U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0U	1.0	0.30
79-00-5	1,1,2-Trichloroethane	1.0U	1.0	0.22
79-01-6	Trichloroethene	4.0	1.0	0.24
75-69-4	Trichlorofluoromethane	1.0U	1.0	0.11
96-18-4	1,2,3-Trichloropropane	1.0U	1.0	0.27
95-63-6	1,2,4-Trimethylbenzene	1.0U	1.0	0.19
108-67-8	1,3,5-Trimethylbenzene	1.0U	1.0	0.20
108-05-4	Vinyl Acetate	10U	10	0.29
75-01-4	Vinyl Chloride	2.0U	2.0	0.14

Continued on next page

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-6**
 Lab Sample ID: **1312305-06**
 Matrix: Water
 Unit: ug/L
 Dilution Factor: 1
 QC Batch: 1313783

Work Order: **1312305**
 Description: Laboratory Services
 Sampled: 12/17/13 14:35
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00
 Prepared: 12/27/13 13:00 By: BAG
 Analyzed: 12/27/13 18:24 By: BAG
 Analytical Batch: 3L30030

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL	MDL
179601-23-1	Xylene, Meta + Para	2.0U	2.0	0.21
95-47-6	Xylene, Ortho	1.0U	1.0	0.23
1330-20-7	Xylene (Total)	3.0U	3.0	0.44

Surrogates:
% Recovery
Control Limits
Dibromofluoromethane
100
85-118
1,2-Dichloroethane-d4
103
87-122
Toluene-d8
100
85-113
4-Bromofluorobenzene
101
82-110

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-6**
 Lab Sample ID: **1312305-06**
 Matrix: Water

Work Order: **1312305**
 Description: Laboratory Services
 Sampled: 12/17/13 14:35
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	MDL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	61	1.0	0.25	mg/L	1	SM 4500-Cl E-2011	12/30/13 08:05	LMA	1313768
Carbon, Total Organic	1.0	0.50	0.13	mg/L	1	SM 5310 C-2011	12/26/13 22:08	KAR	1313744

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-7**
 Lab Sample ID: **1312305-07**
 Matrix: Water

Work Order: **1312305**
 Description: Laboratory Services
 Sampled: 12/17/13 12:05
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00

Dissolved Gases in Water by RSK-175 Headspace Analysis

Analyte	Analytical Result	RL	MDL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Ethane	1.0 U	1.0	0.24	ug/L	1	RSK-175	12/27/13 13:04	JMF	1313729
Methane	18000	200	58	ug/L	400	RSK-175	12/27/13 13:11	JMF	1313729
Ethylene	17	1.0	0.25	ug/L	1	RSK-175	12/27/13 13:04	JMF	1313729

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-7**
 Lab Sample ID: **1312305-07**
 Matrix: Water
 Unit: ug/L
 Dilution Factor: 1
 QC Batch: 1313783

Work Order: **1312305**
 Description: Laboratory Services
 Sampled: 12/17/13 12:05
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00
 Prepared: 12/27/13 13:00 By: BAG
 Analyzed: 12/27/13 18:51 By: BAG
 Analytical Batch: 3L30030

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL	MDL
67-64-1	Acetone	10U	10	1.7
71-43-2	Benzene	1.0U	1.0	0.32
108-86-1	Bromobenzene	1.0U	1.0	0.11
74-97-5	Bromochloromethane	1.0U	1.0	0.30
75-27-4	Bromodichloromethane	1.0U	1.0	0.12
75-25-2	Bromoform	1.0U	1.0	0.24
74-83-9	Bromomethane	1.0U	1.0	0.23
104-51-8	n-Butylbenzene	1.0U	1.0	0.20
135-98-8	sec-Butylbenzene	1.0U	1.0	0.23
98-06-6	tert-Butylbenzene	1.0U	1.0	0.25
75-15-0	Carbon Disulfide	0.28J	5.0	0.28
56-23-5	Carbon Tetrachloride	1.0U	1.0	0.23
108-90-7	Chlorobenzene	1.0U	1.0	0.21
75-00-3	Chloroethane	1.0U	1.0	0.22
67-66-3	Chloroform	1.0U	1.0	0.26
74-87-3	Chloromethane	1.0U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0U	1.0	0.27
106-43-4	4-Chlorotoluene	1.0U	1.0	0.18
124-48-1	Dibromochloromethane	1.0U	1.0	0.14
106-93-4	1,2-Dibromoethane	5.0U	5.0	0.23
74-95-3	Dibromomethane	1.0U	1.0	0.15
95-50-1	1,2-Dichlorobenzene	1.0U	1.0	0.12
541-73-1	1,3-Dichlorobenzene	1.0U	1.0	0.17
106-46-7	1,4-Dichlorobenzene	1.0U	1.0	0.11
75-71-8	Dichlorodifluoromethane	10U	10	0.23
75-34-3	1,1-Dichloroethane	21	1.0	0.28
107-06-2	1,2-Dichloroethane	0.41J	1.0	0.15
75-35-4	1,1-Dichloroethene	43	1.0	0.21
*156-59-2	cis-1,2-Dichloroethene	580E	1.0	0.20

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*See Statement of Data Qualifications

ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312305
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	C-7	Sampled:	12/17/13 12:05
Lab Sample ID:	1312305-07	Sampled By:	Justin Cooper
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/27/13 13:00 By: BAG
Dilution Factor:	1	Analyzed:	12/27/13 18:51 By: BAG
QC Batch:	1313783	Analytical Batch:	3L30030

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL	MDL
156-60-5	trans-1,2-Dichloroethene	1.9	1.0	0.22
*540-59-0	1,2-Dichloroethene (Total)	580E	2.0	0.42
78-87-5	1,2-Dichloropropane	1.0U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0U	1.0	0.13
594-20-7	2,2-Dichloropropane	1.0U	1.0	0.30
563-58-6	1,1-Dichloropropene	1.0U	1.0	0.27
10061-01-5	cis-1,3-Dichloropropene	1.0U	1.0	0.28
10061-02-6	trans-1,3-Dichloropropene	1.0U	1.0	0.14
100-41-4	Ethylbenzene	1.0U	1.0	0.27
591-78-6	2-Hexanone	10U	10	1.5
98-82-8	Isopropylbenzene	1.0U	1.0	0.23
99-87-6	4-Isopropyltoluene	1.0U	1.0	0.30
1634-04-4	Methyl tert-Butyl Ether	5.0U	5.0	0.10
75-09-2	Methylene Chloride	5.0U	5.0	0.24
78-93-3	2-Butanone (MEK)	10U	10	1.6
108-10-1	4-Methyl-2-pentanone (MIBK)	10U	10	1.4
103-65-1	n-Propylbenzene	1.0U	1.0	0.14
100-42-5	Styrene	1.0U	1.0	0.12
630-20-6	1,1,1,2-Tetrachloroethane	1.0U	1.0	0.18
79-34-5	1,1,2,2-Tetrachloroethane	1.0U	1.0	0.22
127-18-4	Tetrachloroethene	1.0U	1.0	0.16
108-88-3	Toluene	1.0U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0U	1.0	0.30
79-00-5	1,1,2-Trichloroethane	1.0U	1.0	0.22
79-01-6	Trichloroethene	1.7	1.0	0.24
75-69-4	Trichlorofluoromethane	1.0U	1.0	0.11
96-18-4	1,2,3-Trichloropropane	1.0U	1.0	0.27
95-63-6	1,2,4-Trimethylbenzene	1.0U	1.0	0.19
108-67-8	1,3,5-Trimethylbenzene	1.0U	1.0	0.20
108-05-4	Vinyl Acetate	10U	10	0.29
75-01-4	Vinyl Chloride	3.0	2.0	0.14

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*See Statement of Data Qualifications

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-7**
 Lab Sample ID: **1312305-07**
 Matrix: Water
 Unit: ug/L
 Dilution Factor: 1
 QC Batch: 1313783

Work Order: **1312305**
 Description: Laboratory Services
 Sampled: 12/17/13 12:05
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00
 Prepared: 12/27/13 13:00 By: BAG
 Analyzed: 12/27/13 18:51 By: BAG
 Analytical Batch: 3L30030

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL	MDL
179601-23-1	Xylene, Meta + Para	2.0U	2.0	0.21
95-47-6	Xylene, Ortho	1.0U	1.0	0.23
1330-20-7	Xylene (Total)	3.0U	3.0	0.44

Surrogates:
% Recovery
Control Limits
Dibromofluoromethane
99
85-118
1,2-Dichloroethane-d4
102
87-122
Toluene-d8
100
85-113
4-Bromofluorobenzene
100
82-110

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-7**
 Lab Sample ID: **1312305-07**
 Matrix: Water

Work Order: **1312305**
 Description: Laboratory Services
 Sampled: 12/17/13 12:05
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00

Total Metals by EPA 6000/7000 Series Methods

Analyte	Analytical Result	RL	MDL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Calcium	110	0.50	0.23	mg/L	1	USEPA-6010C	12/30/13 12:00	CKD	1313615
Magnesium	61	0.50	0.14	mg/L	1	USEPA-6010C	12/30/13 12:00	CKD	1313615
Sodium	550	5.0	1.3	mg/L	10	USEPA-6010C	12/30/13 14:33	CKD	1313615

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-7**
 Lab Sample ID: **1312305-07**
 Matrix: Water

Work Order: **1312305**
 Description: Laboratory Services
 Sampled: 12/17/13 12:05
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	MDL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	470	5.0	1.2	mg/L	5	SM 4500-Cl E-2011	12/30/13 08:39	LMA	1313768
Carbon, Total Organic	7.7	0.50	0.13	mg/L	1	SM 5310 C-2011	12/26/13 22:19	KAR	1313744

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-7**
 Lab Sample ID: **1312305-07RE1**
 Matrix: Water
 Unit: ug/L
 Dilution Factor: 5
 QC Batch: 1313852

Work Order: **1312305**
 Description: Laboratory Services
 Sampled: 12/17/13 12:05
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00
 Prepared: 12/30/13 17:00 By: BAG
 Analyzed: 12/30/13 22:21 By: BAG
 Analytical Batch: 3L31024

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL	MDL
67-64-1	Acetone	50U	50	8.6
71-43-2	Benzene	5.0U	5.0	1.6
108-86-1	Bromobenzene	5.0U	5.0	0.55
74-97-5	Bromochloromethane	5.0U	5.0	1.5
75-27-4	Bromodichloromethane	5.0U	5.0	0.61
75-25-2	Bromoform	5.0U	5.0	1.2
74-83-9	Bromomethane	5.0U	5.0	1.2
104-51-8	n-Butylbenzene	5.0U	5.0	1.0
135-98-8	sec-Butylbenzene	5.0U	5.0	1.1
98-06-6	tert-Butylbenzene	5.0U	5.0	1.2
*75-15-0	Carbon Disulfide	25U	25	1.4
56-23-5	Carbon Tetrachloride	5.0U	5.0	1.1
108-90-7	Chlorobenzene	5.0U	5.0	1.1
75-00-3	Chloroethane	5.0U	5.0	1.1
67-66-3	Chloroform	5.0U	5.0	1.3
74-87-3	Chloromethane	5.0U	5.0	1.0
95-49-8	2-Chlorotoluene	5.0U	5.0	1.4
106-43-4	4-Chlorotoluene	5.0U	5.0	0.90
124-48-1	Dibromochloromethane	5.0U	5.0	0.70
106-93-4	1,2-Dibromoethane	25U	25	1.2
74-95-3	Dibromomethane	5.0U	5.0	0.77
95-50-1	1,2-Dichlorobenzene	5.0U	5.0	0.59
541-73-1	1,3-Dichlorobenzene	5.0U	5.0	0.84
106-46-7	1,4-Dichlorobenzene	5.0U	5.0	0.56
75-71-8	Dichlorodifluoromethane	50U	50	1.1
75-34-3	1,1-Dichloroethane	21	5.0	1.4
107-06-2	1,2-Dichloroethane	5.0U	5.0	0.74
75-35-4	1,1-Dichloroethene	37	5.0	1.0
156-59-2	cis-1,2-Dichloroethene	520	5.0	1.0
156-60-5	trans-1,2-Dichloroethene	3.4J	5.0	1.1
540-59-0	1,2-Dichloroethene (Total)	520	10	2.1

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*See Statement of Data Qualifications

ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312305
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	C-7	Sampled:	12/17/13 12:05
Lab Sample ID:	1312305-07RE1	Sampled By:	Justin Cooper
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/30/13 17:00 By: BAG
Dilution Factor:	5	Analyzed:	12/30/13 22:21 By: BAG
QC Batch:	1313852	Analytical Batch:	3L31024

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL	MDL
78-87-5	1,2-Dichloropropane	5.0U	5.0	0.88
142-28-9	1,3-Dichloropropane	5.0U	5.0	0.66
594-20-7	2,2-Dichloropropane	5.0U	5.0	1.5
563-58-6	1,1-Dichloropropene	5.0U	5.0	1.4
10061-01-5	cis-1,3-Dichloropropene	5.0U	5.0	1.4
10061-02-6	trans-1,3-Dichloropropene	5.0U	5.0	0.72
100-41-4	Ethylbenzene	5.0U	5.0	1.4
591-78-6	2-Hexanone	50U	50	7.6
98-82-8	Isopropylbenzene	5.0U	5.0	1.1
99-87-6	4-Isopropyltoluene	5.0U	5.0	1.5
1634-04-4	Methyl tert-Butyl Ether	25U	25	0.52
75-09-2	Methylene Chloride	25U	25	1.2
78-93-3	2-Butanone (MEK)	50U	50	8.1
108-10-1	4-Methyl-2-pentanone (MIBK)	50U	50	7.2
103-65-1	n-Propylbenzene	5.0U	5.0	0.72
100-42-5	Styrene	5.0U	5.0	0.62
630-20-6	1,1,1,2-Tetrachloroethane	5.0U	5.0	0.91
79-34-5	1,1,2,2-Tetrachloroethane	5.0U	5.0	1.1
127-18-4	Tetrachloroethene	5.0U	5.0	0.80
108-88-3	Toluene	5.0U	5.0	1.4
71-55-6	1,1,1-Trichloroethane	5.0U	5.0	1.5
79-00-5	1,1,2-Trichloroethane	5.0U	5.0	1.1
79-01-6	Trichloroethene	2.1J	5.0	1.2
75-69-4	Trichlorofluoromethane	5.0U	5.0	0.54
96-18-4	1,2,3-Trichloropropane	5.0U	5.0	1.3
95-63-6	1,2,4-Trimethylbenzene	5.0U	5.0	0.94
108-67-8	1,3,5-Trimethylbenzene	5.0U	5.0	1.0
108-05-4	Vinyl Acetate	50U	50	1.4
75-01-4	Vinyl Chloride	4.0J	10	0.68
179601-23-1	Xylene, Meta + Para	10U	10	1.1
95-47-6	Xylene, Ortho	5.0U	5.0	1.1

Continued on next page

ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312305
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	C-7	Sampled:	12/17/13 12:05
Lab Sample ID:	1312305-07RE1	Sampled By:	Justin Cooper
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/30/13 17:00 By: BAG
Dilution Factor:	5	Analyzed:	12/30/13 22:21 By: BAG
QC Batch:	1313852	Analytical Batch:	3L31024

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL	MDL
1330-20-7	Xylene (Total)	15U	15	2.2
Surrogates:				
		% Recovery		Control Limits
	<i>Dibromofluoromethane</i>	<i>90</i>		<i>85-118</i>
	<i>1,2-Dichloroethane-d4</i>	<i>98</i>		<i>87-122</i>
	<i>Toluene-d8</i>	<i>99</i>		<i>85-113</i>
	<i>4-Bromofluorobenzene</i>	<i>102</i>		<i>82-110</i>

ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312305
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	Trip Blank TM1455	Sampled:	12/17/13 0:00
Lab Sample ID:	1312305-08	Sampled By:	TriMatrix
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/27/13 13:00 By: BAG
Dilution Factor:	1	Analyzed:	12/27/13 15:17 By: BAG
QC Batch:	1313783	Analytical Batch:	3L30030

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL	MDL
*67-64-1	Acetone	6.7J	10	1.7
71-43-2	Benzene	1.0U	1.0	0.32
108-86-1	Bromobenzene	1.0U	1.0	0.11
74-97-5	Bromochloromethane	1.0U	1.0	0.30
75-27-4	Bromodichloromethane	1.0U	1.0	0.12
75-25-2	Bromoform	1.0U	1.0	0.24
74-83-9	Bromomethane	1.0U	1.0	0.23
104-51-8	n-Butylbenzene	1.0U	1.0	0.20
135-98-8	sec-Butylbenzene	1.0U	1.0	0.23
98-06-6	tert-Butylbenzene	1.0U	1.0	0.25
75-15-0	Carbon Disulfide	5.0U	5.0	0.28
56-23-5	Carbon Tetrachloride	1.0U	1.0	0.23
108-90-7	Chlorobenzene	1.0U	1.0	0.21
75-00-3	Chloroethane	1.0U	1.0	0.22
67-66-3	Chloroform	1.0U	1.0	0.26
74-87-3	Chloromethane	1.0U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0U	1.0	0.27
106-43-4	4-Chlorotoluene	1.0U	1.0	0.18
124-48-1	Dibromochloromethane	1.0U	1.0	0.14
106-93-4	1,2-Dibromoethane	5.0U	5.0	0.23
74-95-3	Dibromomethane	1.0U	1.0	0.15
95-50-1	1,2-Dichlorobenzene	1.0U	1.0	0.12
541-73-1	1,3-Dichlorobenzene	1.0U	1.0	0.17
106-46-7	1,4-Dichlorobenzene	1.0U	1.0	0.11
75-71-8	Dichlorodifluoromethane	10U	10	0.23
75-34-3	1,1-Dichloroethane	1.0U	1.0	0.28
107-06-2	1,2-Dichloroethane	1.0U	1.0	0.15
75-35-4	1,1-Dichloroethene	1.0U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	1.0U	1.0	0.20
156-60-5	trans-1,2-Dichloroethene	1.0U	1.0	0.22
540-59-0	1,2-Dichloroethene (Total)	2.0U	2.0	0.42

Continued on next page

*See Statement of Data Qualifications

ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312305
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	Trip Blank TM1455	Sampled:	12/17/13 0:00
Lab Sample ID:	1312305-08	Sampled By:	TriMatrix
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/27/13 13:00 By: BAG
Dilution Factor:	1	Analyzed:	12/27/13 15:17 By: BAG
QC Batch:	1313783	Analytical Batch:	3L30030

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL	MDL
78-87-5	1,2-Dichloropropane	1.0U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0U	1.0	0.13
594-20-7	2,2-Dichloropropane	1.0U	1.0	0.30
563-58-6	1,1-Dichloropropene	1.0U	1.0	0.27
10061-01-5	cis-1,3-Dichloropropene	1.0U	1.0	0.28
10061-02-6	trans-1,3-Dichloropropene	1.0U	1.0	0.14
100-41-4	Ethylbenzene	1.0U	1.0	0.27
591-78-6	2-Hexanone	10U	10	1.5
98-82-8	Isopropylbenzene	1.0U	1.0	0.23
99-87-6	4-Isopropyltoluene	1.0U	1.0	0.30
1634-04-4	Methyl tert-Butyl Ether	5.0U	5.0	0.10
75-09-2	Methylene Chloride	5.0U	5.0	0.24
78-93-3	2-Butanone (MEK)	10U	10	1.6
108-10-1	4-Methyl-2-pentanone (MIBK)	10U	10	1.4
103-65-1	n-Propylbenzene	1.0U	1.0	0.14
100-42-5	Styrene	1.0U	1.0	0.12
630-20-6	1,1,1,2-Tetrachloroethane	1.0U	1.0	0.18
79-34-5	1,1,2,2-Tetrachloroethane	1.0U	1.0	0.22
127-18-4	Tetrachloroethene	1.0U	1.0	0.16
108-88-3	Toluene	1.0U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0U	1.0	0.30
79-00-5	1,1,2-Trichloroethane	1.0U	1.0	0.22
79-01-6	Trichloroethene	1.0U	1.0	0.24
75-69-4	Trichlorofluoromethane	1.0U	1.0	0.11
96-18-4	1,2,3-Trichloropropane	1.0U	1.0	0.27
95-63-6	1,2,4-Trimethylbenzene	1.0U	1.0	0.19
108-67-8	1,3,5-Trimethylbenzene	1.0U	1.0	0.20
108-05-4	Vinyl Acetate	10U	10	0.29
75-01-4	Vinyl Chloride	2.0U	2.0	0.14
179601-23-1	Xylene, Meta + Para	2.0U	2.0	0.21
95-47-6	Xylene, Ortho	1.0U	1.0	0.23

Continued on next page

ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312305
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	Trip Blank TM1455	Sampled:	12/17/13 0:00
Lab Sample ID:	1312305-08	Sampled By:	TriMatrix
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/27/13 13:00 By: BAG
Dilution Factor:	1	Analyzed:	12/27/13 15:17 By: BAG
QC Batch:	1313783	Analytical Batch:	3L30030

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL	MDL
1330-20-7	Xylene (Total)	3.0U	3.0	0.44
Surrogates:				
		% Recovery		Control Limits
	<i>Dibromofluoromethane</i>	<i>99</i>		<i>85-118</i>
	<i>1,2-Dichloroethane-d4</i>	<i>101</i>		<i>87-122</i>
	<i>Toluene-d8</i>	<i>100</i>		<i>85-113</i>
	<i>4-Bromofluorobenzene</i>	<i>100</i>		<i>82-110</i>

QUALITY CONTROL REPORT

Dissolved Gases in Water by RSK-175 Headspace Analysis

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL	MDL
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QC Batch: 1313729 Method-Specific Extraction/RSK-175

Method Blank

Unit: ug/L

Analyzed: 12/27/2013 By: JMF
 Analytical Batch: 4A03013

Ethane			1.0 U					1.0	0.24
Methane			0.50 U			--		0.50	0.14
Ethylene			0.41 J			--		1.0	0.25

Laboratory Control Sample

Unit: ug/L

Analyzed: 12/27/2013 By: JMF
 Analytical Batch: 4A03013

Ethane		58.7	50.4	86	67-122	--		1.0	0.24
Methane		35.8	31.1	87	70-116	--		0.50	0.14
Ethylene		58.1	49.4	85	67-121	--		1.0	0.25

Matrix Spike 1312305-05 C-5

Unit: ug/L

Analyzed: 12/27/2013 By: JMF
 Analytical Batch: 4A03013

Ethane	1.0 U	58.7	41.6	71	51-108	--		1.0	0.24
Methane	10.8	35.8	36.8	73	42-112	--		0.50	0.14
Ethylene	0.390 J	58.1	40.2	68	52-107	--		1.0	0.25

Matrix Spike Duplicate 1312305-05 C-5

Unit: ug/L

Analyzed: 12/27/2013 By: JMF
 Analytical Batch: 4A03013

Ethane	1.0 U	58.7	39.0	67	51-108	6	20	1.0	0.24
Methane	10.8	35.8	34.2	65	42-112	7	20	0.50	0.14
Ethylene	0.390 J	58.1	38.4	65	52-107	5	20	1.0	0.25

QUALITY CONTROL REPORT
Volatile Organic Compounds by EPA Method 8260B

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL	MDL
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QC Batch: 1313783 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank

Unit: ug/L

Analyzed:

12/27/2013

By: BAG

Analytical Batch:

3L30030

Acetone			4.0 J			--		10	1.7
Benzene			1.0 U					1.0	0.32
Bromobenzene			1.0 U					1.0	0.11
Bromochloromethane			1.0 U					1.0	0.30
Bromodichloromethane			1.0 U					1.0	0.12
Bromoform			1.0 U					1.0	0.24
Bromomethane			1.0 U					1.0	0.23
n-Butylbenzene			1.0 U			--		1.0	0.20
sec-Butylbenzene			1.0 U			--		1.0	0.23
tert-Butylbenzene			1.0 U					1.0	0.25
Carbon Disulfide			5.0 U			--		5.0	0.28
Carbon Tetrachloride			1.0 U					1.0	0.23
Chlorobenzene			1.0 U					1.0	0.21
Chloroethane			1.0 U					1.0	0.22
Chloroform			1.0 U					1.0	0.26
Chloromethane			1.0 U					1.0	0.20
2-Chlorotoluene			1.0 U					1.0	0.27
4-Chlorotoluene			1.0 U					1.0	0.18
Dibromochloromethane			1.0 U					1.0	0.14
1,2-Dibromoethane			5.0 U					5.0	0.23
Dibromomethane			1.0 U					1.0	0.15
1,2-Dichlorobenzene			1.0 U					1.0	0.12
1,3-Dichlorobenzene			1.0 U			--		1.0	0.17
1,4-Dichlorobenzene			1.0 U					1.0	0.11
Dichlorodifluoromethane			10 U					10	0.23
1,1-Dichloroethane			1.0 U					1.0	0.28
1,2-Dichloroethane			1.0 U					1.0	0.15
1,1-Dichloroethene			1.0 U					1.0	0.21
cis-1,2-Dichloroethene			1.0 U					1.0	0.20
trans-1,2-Dichloroethene			1.0 U					1.0	0.22
1,2-Dichloroethene (Total)			2.0 U					2.0	0.42
1,2-Dichloropropane			1.0 U					1.0	0.18
1,3-Dichloropropane			1.0 U					1.0	0.13
2,2-Dichloropropane			1.0 U					1.0	0.30
1,1-Dichloropropene			1.0 U					1.0	0.27
cis-1,3-Dichloropropene			1.0 U					1.0	0.28

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QUALITY CONTROL REPORT
Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL	MDL
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QC Batch: 1313783 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank (Continued)

Analyzed: 12/27/2013 By: BAG

Unit: ug/L

Analytical Batch: 3L30030

trans-1,3-Dichloropropene			1.0 U					1.0	0.14
Ethylbenzene			1.0 U					1.0	0.27
2-Hexanone			10 U					10	1.5
Isopropylbenzene			1.0 U					1.0	0.23
4-Isopropyltoluene			1.0 U			--		1.0	0.30
Methyl tert-Butyl Ether			5.0 U					5.0	0.10
Methylene Chloride			5.0 U					5.0	0.24
2-Butanone (MEK)			10 U					10	1.6
4-Methyl-2-pentanone (MIBK)			10 U					10	1.4
n-Propylbenzene			1.0 U					1.0	0.14
Styrene			1.0 U					1.0	0.12
1,1,1,2-Tetrachloroethane			1.0 U					1.0	0.18
1,1,2,2-Tetrachloroethane			1.0 U					1.0	0.22
Tetrachloroethene			1.0 U					1.0	0.16
Toluene			1.0 U					1.0	0.28
1,1,1-Trichloroethane			1.0 U					1.0	0.30
1,1,2-Trichloroethane			1.0 U					1.0	0.22
Trichloroethene			1.0 U					1.0	0.24
Trichlorofluoromethane			1.0 U					1.0	0.11
1,2,3-Trichloropropane			1.0 U					1.0	0.27
1,2,4-Trimethylbenzene			1.0 U					1.0	0.19
1,3,5-Trimethylbenzene			1.0 U					1.0	0.20
Vinyl Acetate			10 U					10	0.29
Vinyl Chloride			2.0 U					2.0	0.14
Xylene, Meta + Para			2.0 U					2.0	0.21
Xylene, Ortho			1.0 U					1.0	0.23
Xylene (Total)			3.0 U					3.0	0.44

Surrogates:

Dibromofluoromethane	98	85-118
1,2-Dichloroethane-d4	101	87-122
Toluene-d8	100	85-113
4-Bromofluorobenzene	100	82-110

Laboratory Control Sample

Analyzed: 12/27/2013 By: BAG

Unit: ug/L

Analytical Batch: 3L30030

Acetone	40.0	49.0	123	53-138	--			10	1.7
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Continued on next page

QUALITY CONTROL REPORT
Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL	MDL
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QC Batch: 1313783 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Laboratory Control Sample (Continued)

Analyzed: 12/27/2013 By: BAG

Unit: ug/L

Analytical Batch: 3L30030

Benzene	40.0	39.6	99	84-119	--	1.0	0.32
Bromobenzene	40.0	38.8	97	79-127	--	1.0	0.11
Bromochloromethane	40.0	38.2	96	77-126	--	1.0	0.30
Bromodichloromethane	40.0	39.8	99	82-124	--	1.0	0.12
Bromoform	40.0	35.6	89	65-123	--	1.0	0.24
Bromomethane	40.0	42.2	105	55-142	--	1.0	0.23
n-Butylbenzene	40.0	41.7	104	79-123	--	1.0	0.20
sec-Butylbenzene	40.0	40.2	101	81-122	--	1.0	0.23
tert-Butylbenzene	40.0	40.0	100	80-122	--	1.0	0.25
Carbon Disulfide	40.0	42.4	106	70-131	--	5.0	0.28
Carbon Tetrachloride	40.0	41.4	103	79-127	--	1.0	0.23
Chlorobenzene	40.0	39.3	98	84-118	--	1.0	0.21
Chloroethane	40.0	40.6	102	76-124	--	1.0	0.22
Chloroform	40.0	39.1	98	82-119	--	1.0	0.26
Chloromethane	40.0	41.2	103	73-125	--	1.0	0.20
2-Chlorotoluene	40.0	39.8	100	82-123	--	1.0	0.27
4-Chlorotoluene	40.0	39.4	99	82-125	--	1.0	0.18
Dibromochloromethane	40.0	36.6	91	74-121	--	1.0	0.14
1,2-Dibromoethane	40.0	41.7	104	84-125	--	5.0	0.23
Dibromomethane	40.0	39.9	100	83-120	--	1.0	0.15
1,2-Dichlorobenzene	40.0	39.7	99	81-124	--	1.0	0.12
1,3-Dichlorobenzene	40.0	39.8	99	81-124	--	1.0	0.17
1,4-Dichlorobenzene	40.0	39.2	98	79-122	--	1.0	0.11
Dichlorodifluoromethane	40.0	44.6	112	68-130	--	10	0.23
1,1-Dichloroethane	40.0	40.7	102	80-118	--	1.0	0.28
1,2-Dichloroethane	40.0	40.0	100	81-122	--	1.0	0.15
1,1-Dichloroethene	40.0	40.8	102	77-123	--	1.0	0.21
cis-1,2-Dichloroethene	40.0	40.0	100	84-119	--	1.0	0.20
trans-1,2-Dichloroethene	40.0	39.9	100	76-126	--	1.0	0.22
1,2-Dichloroethene (Total)	80.0	79.9	100	82-119	--	2.0	0.42
1,2-Dichloropropane	40.0	39.2	98	82-122	--	1.0	0.18
1,3-Dichloropropane	40.0	40.0	100	84-125	--	1.0	0.13
2,2-Dichloropropane	40.0	42.0	105	55-141	--	1.0	0.30
1,1-Dichloropropene	40.0	40.5	101	84-122	--	1.0	0.27
cis-1,3-Dichloropropene	40.0	37.4	93	77-120	--	1.0	0.28
trans-1,3-Dichloropropene	40.0	36.6	92	73-116	--	1.0	0.14

Continued on next page

QUALITY CONTROL REPORT
Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL	MDL
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QC Batch: 1313783 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Laboratory Control Sample (Continued)

Unit: ug/L	Analyzed:	12/27/2013	By: BAG
	Analytical Batch:	3L30030	

Ethylbenzene	40.0	39.7	99	87-119	--	1.0	0.27
2-Hexanone	40.0	47.3	118	55-141	--	10	1.5
Isopropylbenzene	40.0	39.5	99	76-126	--	1.0	0.23
4-Isopropyltoluene	40.0	40.5	101	80-126	--	1.0	0.30
Methyl tert-Butyl Ether	40.0	42.9	107	72-128	--	5.0	0.10
Methylene Chloride	40.0	38.6	96	75-129	--	5.0	0.24
2-Butanone (MEK)	40.0	45.6	114	52-142	--	10	1.6
4-Methyl-2-pentanone (MIBK)	40.0	44.3	111	60-142	--	10	1.4
n-Propylbenzene	40.0	40.4	101	82-123	--	1.0	0.14
Styrene	40.0	40.0	100	84-120	--	1.0	0.12
1,1,1,2-Tetrachloroethane	40.0	41.0	102	84-122	--	1.0	0.18
1,1,2,2-Tetrachloroethane	40.0	42.0	105	70-137	--	1.0	0.22
Tetrachloroethene	40.0	40.3	101	81-117	--	1.0	0.16
Toluene	40.0	39.5	99	85-118	--	1.0	0.28
1,1,1-Trichloroethane	40.0	41.0	103	81-122	--	1.0	0.30
1,1,2-Trichloroethane	40.0	40.4	101	83-121	--	1.0	0.22
Trichloroethene	40.0	39.2	98	82-119	--	1.0	0.24
Trichlorofluoromethane	40.0	41.8	105	76-128	--	1.0	0.11
1,2,3-Trichloropropane	40.0	42.7	107	78-134	--	1.0	0.27
1,2,4-Trimethylbenzene	40.0	40.0	100	83-124	--	1.0	0.19
1,3,5-Trimethylbenzene	40.0	39.8	99	82-125	--	1.0	0.20
Vinyl Acetate	40.0	41.5	104	45-155	--	10	0.29
Vinyl Chloride	40.0	41.8	105	77-123	--	2.0	0.14
Xylene, Meta + Para	80.0	79.4	99	86-119	--	2.0	0.21
Xylene, Ortho	40.0	40.0	100	86-120	--	1.0	0.23
Xylene (Total)	120	119	99	86-119	--	3.0	0.44

Surrogates:

Dibromofluoromethane	99	85-118
1,2-Dichloroethane-d4	100	87-122
Toluene-d8	100	85-113
4-Bromofluorobenzene	100	82-110

Matrix Spike 1312305-02 C-2

Unit: ug/L	Analyzed:	12/27/2013	By: BAG
	Analytical Batch:	3L30030	

Acetone	10 U	40.0	41.7	104	46-145	--	10	1.7
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QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL	MDL
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QC Batch: 1313783 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Matrix Spike (Continued) 1312305-02 C-2

Analyzed: 12/27/2013 By: BAG

Unit: ug/L

Analytical Batch: 3L30030

Benzene	1.0 U	40.0	41.6	104	80-129	--		1.0	0.32
Bromobenzene	1.0 U	40.0	40.0	100	76-121	--		1.0	0.11
Bromochloromethane	1.0 U	40.0	40.6	102	76-130	--		1.0	0.30
Bromodichloromethane	1.0 U	40.0	43.9	110	81-130	--		1.0	0.12
Bromoform	1.0 U	40.0	41.6	104	60-122	--		1.0	0.24
Bromomethane	1.0 U	40.0	27.6	69	44-140	--		1.0	0.23
n-Butylbenzene	1.0 U	40.0	41.9	105	74-130	--		1.0	0.20
sec-Butylbenzene	1.0 U	40.0	41.5	104	77-127	--		1.0	0.23
tert-Butylbenzene	1.0 U	40.0	41.3	103	77-126	--		1.0	0.25
Carbon Disulfide	5.0 U	40.0	45.8	115	69-144	--		5.0	0.28
Carbon Tetrachloride	1.0 U	40.0	46.8	117	78-137	--		1.0	0.23
Chlorobenzene	1.0 U	40.0	40.5	101	80-121	--		1.0	0.21
Chloroethane	1.0 U	40.0	41.8	104	72-137	--		1.0	0.22
Chloroform	1.0 U	40.0	41.4	104	79-128	--		1.0	0.26
Chloromethane	1.0 U	40.0	40.2	101	72-134	--		1.0	0.20
2-Chlorotoluene	1.0 U	40.0	41.2	103	79-122	--		1.0	0.27
4-Chlorotoluene	1.0 U	40.0	40.6	102	79-124	--		1.0	0.18
Dibromochloromethane	1.0 U	40.0	40.3	101	70-126	--		1.0	0.14
1,2-Dibromoethane	5.0 U	40.0	42.1	105	78-125	--		5.0	0.23
Dibromomethane	1.0 U	40.0	41.1	103	76-126	--		1.0	0.15
1,2-Dichlorobenzene	1.0 U	40.0	40.3	101	76-124	--		1.0	0.12
1,3-Dichlorobenzene	1.0 U	40.0	40.5	101	76-123	--		1.0	0.17
1,4-Dichlorobenzene	1.0 U	40.0	39.8	100	75-121	--		1.0	0.11
Dichlorodifluoromethane	10 U	40.0	45.7	114	64-138	--		10	0.23
1,1-Dichloroethane	0.390 J	40.0	42.6	105	76-129	--		1.0	0.28
1,2-Dichloroethane	1.0 U	40.0	42.2	106	74-131	--		1.0	0.15
1,1-Dichloroethene	0.720 J	40.0	42.9	106	74-134	--		1.0	0.21
cis-1,2-Dichloroethene	0.640 J	40.0	41.9	103	76-129	--		1.0	0.20
trans-1,2-Dichloroethene	1.0 U	40.0	42.7	107	71-137	--		1.0	0.22
1,2-Dichloroethene (Total)	0.640 J	80.0	84.5	105	73-132	--		2.0	0.42
1,2-Dichloropropane	1.0 U	40.0	40.4	101	79-128	--		1.0	0.18
1,3-Dichloropropane	1.0 U	40.0	41.5	104	79-122	--		1.0	0.13
2,2-Dichloropropane	1.0 U	40.0	35.9	90	39-131	--		1.0	0.30
1,1-Dichloropropene	1.0 U	40.0	43.0	108	78-133	--		1.0	0.27
cis-1,3-Dichloropropene	1.0 U	40.0	38.3	96	68-122	--		1.0	0.28
trans-1,3-Dichloropropene	1.0 U	40.0	37.8	95	66-117	--		1.0	0.14

Continued on next page

QUALITY CONTROL REPORT
Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL	MDL
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QC Batch: 1313783 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Matrix Spike (Continued) 1312305-02 C-2

Analyzed: 12/27/2013 By: BAG

Unit: ug/L

Analytical Batch: 3L30030

Ethylbenzene	1.0 U	40.0	41.5	104	82-127	--		1.0	0.27
2-Hexanone	10 U	40.0	44.0	110	53-134	--		10	1.5
Isopropylbenzene	1.0 U	40.0	41.2	103	73-131	--		1.0	0.23
4-Isopropyltoluene	1.0 U	40.0	41.1	103	78-126	--		1.0	0.30
Methyl tert-Butyl Ether	5.0 U	40.0	43.1	108	65-131	--		5.0	0.10
Methylene Chloride	5.0 U	40.0	41.6	104	75-133	--		5.0	0.24
2-Butanone (MEK)	10 U	40.0	43.0	108	52-134	--		10	1.6
4-Methyl-2-pentanone (MIBK)	10 U	40.0	41.4	104	55-139	--		10	1.4
n-Propylbenzene	1.0 U	40.0	41.2	103	78-128	--		1.0	0.14
Styrene	1.0 U	40.0	41.2	103	75-129	--		1.0	0.12
1,1,1,2-Tetrachloroethane	1.0 U	40.0	44.4	111	77-131	--		1.0	0.18
1,1,2,2-Tetrachloroethane	1.0 U	40.0	43.1	108	71-129	--		1.0	0.22
Tetrachloroethene	1.0 U	40.0	41.1	103	75-126	--		1.0	0.16
Toluene	1.0 U	40.0	41.6	104	79-129	--		1.0	0.28
1,1,1-Trichloroethane	1.0 U	40.0	44.4	111	79-131	--		1.0	0.30
1,1,2-Trichloroethane	1.0 U	40.0	41.7	104	76-127	--		1.0	0.22
Trichloroethene	1.51	40.0	40.5	98	75-127	--		1.0	0.24
Trichlorofluoromethane	1.0 U	40.0	44.4	111	70-141	--		1.0	0.11
1,2,3-Trichloropropane	1.0 U	40.0	42.4	106	64-131	--		1.0	0.27
1,2,4-Trimethylbenzene	1.0 U	40.0	41.2	103	75-129	--		1.0	0.19
1,3,5-Trimethylbenzene	1.0 U	40.0	41.0	103	75-128	--		1.0	0.20
Vinyl Acetate	10 U	40.0	34.9	87	34-147	--		10	0.29
Vinyl Chloride	2.0 U	40.0	43.6	109	73-136	--		2.0	0.14
Xylene, Meta + Para	2.0 U	80.0	82.9	104	77-130	--		2.0	0.21
Xylene, Ortho	1.0 U	40.0	41.7	104	79-129	--		1.0	0.23
Xylene (Total)	3.0 U	120	125	104	78-130	--		3.0	0.44

Surrogates:

<i>Dibromofluoromethane</i>	<i>101</i>	<i>85-118</i>
<i>1,2-Dichloroethane-d4</i>	<i>103</i>	<i>87-122</i>
<i>Toluene-d8</i>	<i>100</i>	<i>85-113</i>
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>82-110</i>

Matrix Spike Duplicate 1312305-02 C-2

Analyzed: 12/27/2013 By: BAG

Unit: ug/L

Analytical Batch: 3L30030

Acetone	10 U	40.0	42.4	106	46-145	2	17	10	1.7
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QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL	MDL
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QC Batch: 1313783 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Matrix Spike Duplicate (Continued) 1312305-02 C-2

Analyzed: 12/27/2013 By: BAG

Unit: ug/L

Analytical Batch: 3L30030

Benzene	1.0 U	40.0	41.2	103	80-129	1	9	1.0	0.32
Bromobenzene	1.0 U	40.0	39.6	99	76-121	1	10	1.0	0.11
Bromochloromethane	1.0 U	40.0	40.5	101	76-130	0.4	11	1.0	0.30
Bromodichloromethane	1.0 U	40.0	43.2	108	81-130	2	10	1.0	0.12
Bromoform	1.0 U	40.0	40.4	101	60-122	3	12	1.0	0.24
Bromomethane	1.0 U	40.0	32.1	80	44-140	15	35	1.0	0.23
n-Butylbenzene	1.0 U	40.0	42.4	106	74-130	1	12	1.0	0.20
sec-Butylbenzene	1.0 U	40.0	41.5	104	77-127	0.07	12	1.0	0.23
tert-Butylbenzene	1.0 U	40.0	41.3	103	77-126	0.05	11	1.0	0.25
Carbon Disulfide	5.0 U	40.0	43.8	110	69-144	4	15	5.0	0.28
Carbon Tetrachloride	1.0 U	40.0	46.6	116	78-137	0.6	11	1.0	0.23
Chlorobenzene	1.0 U	40.0	39.9	100	80-121	2	8	1.0	0.21
Chloroethane	1.0 U	40.0	42.5	106	72-137	2	14	1.0	0.22
Chloroform	1.0 U	40.0	41.0	102	79-128	1	9	1.0	0.26
Chloromethane	1.0 U	40.0	41.2	103	72-134	2	11	1.0	0.20
2-Chlorotoluene	1.0 U	40.0	40.6	102	79-122	1	12	1.0	0.27
4-Chlorotoluene	1.0 U	40.0	40.4	101	79-124	0.7	11	1.0	0.18
Dibromochloromethane	1.0 U	40.0	39.1	98	70-126	3	10	1.0	0.14
1,2-Dibromoethane	5.0 U	40.0	41.3	103	78-125	2	9	5.0	0.23
Dibromomethane	1.0 U	40.0	40.6	101	76-126	1	9	1.0	0.15
1,2-Dichlorobenzene	1.0 U	40.0	39.9	100	76-124	1	10	1.0	0.12
1,3-Dichlorobenzene	1.0 U	40.0	40.2	100	76-123	0.8	10	1.0	0.17
1,4-Dichlorobenzene	1.0 U	40.0	39.5	99	75-121	0.7	10	1.0	0.11
Dichlorodifluoromethane	10 U	40.0	45.7	114	64-138	0.04	13	10	0.23
1,1-Dichloroethane	0.390 J	40.0	42.7	106	76-129	0.3	13	1.0	0.28
1,2-Dichloroethane	1.0 U	40.0	41.2	103	74-131	3	9	1.0	0.15
1,1-Dichloroethene	0.720 J	40.0	43.6	107	74-134	2	11	1.0	0.21
cis-1,2-Dichloroethene	0.640 J	40.0	41.9	103	76-129	0.07	12	1.0	0.20
trans-1,2-Dichloroethene	1.0 U	40.0	42.3	106	71-137	0.9	15	1.0	0.22
1,2-Dichloroethene (Total)	0.640 J	80.0	84.2	104	73-132	0.4	12	2.0	0.42
1,2-Dichloropropane	1.0 U	40.0	40.3	101	79-128	0.4	9	1.0	0.18
1,3-Dichloropropane	1.0 U	40.0	40.5	101	79-122	3	10	1.0	0.13
2,2-Dichloropropane	1.0 U	40.0	35.5	89	39-131	1	13	1.0	0.30
1,1-Dichloropropene	1.0 U	40.0	42.7	107	78-133	0.8	11	1.0	0.27
cis-1,3-Dichloropropene	1.0 U	40.0	38.0	95	68-122	0.8	11	1.0	0.28
trans-1,3-Dichloropropene	1.0 U	40.0	37.5	94	66-117	0.9	12	1.0	0.14

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QUALITY CONTROL REPORT
Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL	MDL
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QC Batch: 1313783 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Matrix Spike Duplicate (Continued) 1312305-02 C-2

Analyzed: 12/27/2013 By: BAG

Unit: ug/L

Analytical Batch: 3L30030

Ethylbenzene	1.0 U	40.0	40.9	102	82-127	2	10	1.0	0.27
2-Hexanone	10 U	40.0	41.3	103	53-134	6	15	10	1.5
Isopropylbenzene	1.0 U	40.0	41.0	103	73-131	0.3	12	1.0	0.23
4-Isopropyltoluene	1.0 U	40.0	41.2	103	78-126	0.4	11	1.0	0.30
Methyl tert-Butyl Ether	5.0 U	40.0	42.5	106	65-131	1	15	5.0	0.10
Methylene Chloride	5.0 U	40.0	40.8	102	75-133	2	10	5.0	0.24
2-Butanone (MEK)	10 U	40.0	39.4	99	52-134	9	17	10	1.6
4-Methyl-2-pentanone (MIBK)	10 U	40.0	38.8	97	55-139	6	15	10	1.4
n-Propylbenzene	1.0 U	40.0	41.0	103	78-128	0.4	11	1.0	0.14
Styrene	1.0 U	40.0	37.2	93	75-129	10	10	1.0	0.12
1,1,1,2-Tetrachloroethane	1.0 U	40.0	43.3	108	77-131	3	10	1.0	0.18
1,1,2,2-Tetrachloroethane	1.0 U	40.0	42.6	106	71-129	1	10	1.0	0.22
Tetrachloroethene	1.0 U	40.0	40.6	102	75-126	1	10	1.0	0.16
Toluene	1.0 U	40.0	40.8	102	79-129	2	9	1.0	0.28
1,1,1-Trichloroethane	1.0 U	40.0	44.0	110	79-131	0.9	10	1.0	0.30
1,1,2-Trichloroethane	1.0 U	40.0	40.6	102	76-127	3	10	1.0	0.22
Trichloroethene	1.51	40.0	41.7	100	75-127	3	10	1.0	0.24
Trichlorofluoromethane	1.0 U	40.0	43.9	110	70-141	1	11	1.0	0.11
1,2,3-Trichloropropane	1.0 U	40.0	42.0	105	64-131	0.9	12	1.0	0.27
1,2,4-Trimethylbenzene	1.0 U	40.0	40.9	102	75-129	0.6	12	1.0	0.19
1,3,5-Trimethylbenzene	1.0 U	40.0	40.7	102	75-128	0.7	10	1.0	0.20
Vinyl Acetate	10 U	40.0	32.4	81	34-147	7	19	10	0.29
Vinyl Chloride	2.0 U	40.0	43.8	110	73-136	0.6	12	2.0	0.14
Xylene, Meta + Para	2.0 U	80.0	81.5	102	77-130	2	9	2.0	0.21
Xylene, Ortho	1.0 U	40.0	41.1	103	79-129	1	9	1.0	0.23
Xylene (Total)	3.0 U	120	123	102	78-130	2	9	3.0	0.44

Surrogates:

Dibromofluoromethane	101	85-118
1,2-Dichloroethane-d4	101	87-122
Toluene-d8	100	85-113
4-Bromofluorobenzene	101	82-110

QC Batch: 1313852 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank

Analyzed: 12/30/2013 By: BAG

Unit: ug/L

Analytical Batch: 3L31024

Acetone			2.0 J		--			10	1.7
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QUALITY CONTROL REPORT
Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL	MDL
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QC Batch: 1313852 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank (Continued)

Analyzed: 12/30/2013 By: BAG

Unit: ug/L

Analytical Batch: 3L31024

Benzene			1.0 U					1.0	0.32
Bromobenzene			1.0 U					1.0	0.11
Bromochloromethane			1.0 U					1.0	0.30
Bromodichloromethane			1.0 U					1.0	0.12
Bromoform			1.0 U					1.0	0.24
Bromomethane			1.0 U					1.0	0.23
n-Butylbenzene			1.0 U			--		1.0	0.20
sec-Butylbenzene			1.0 U			--		1.0	0.23
tert-Butylbenzene			1.0 U					1.0	0.25
Carbon Disulfide			5.0 U			--		5.0	0.28
Carbon Tetrachloride			1.0 U					1.0	0.23
Chlorobenzene			1.0 U					1.0	0.21
Chloroethane			1.0 U					1.0	0.22
Chloroform			1.0 U					1.0	0.26
Chloromethane			1.0 U					1.0	0.20
2-Chlorotoluene			1.0 U					1.0	0.27
4-Chlorotoluene			1.0 U					1.0	0.18
Dibromochloromethane			1.0 U					1.0	0.14
1,2-Dibromoethane			5.0 U					5.0	0.23
Dibromomethane			1.0 U					1.0	0.15
1,2-Dichlorobenzene			1.0 U					1.0	0.12
1,3-Dichlorobenzene			1.0 U			--		1.0	0.17
1,4-Dichlorobenzene			1.0 U			--		1.0	0.11
Dichlorodifluoromethane			10 U					10	0.23
1,1-Dichloroethane			1.0 U					1.0	0.28
1,2-Dichloroethane			1.0 U					1.0	0.15
1,1-Dichloroethene			1.0 U					1.0	0.21
cis-1,2-Dichloroethene			1.0 U					1.0	0.20
trans-1,2-Dichloroethene			1.0 U					1.0	0.22
1,2-Dichloroethene (Total)			2.0 U					2.0	0.42
1,2-Dichloropropane			1.0 U					1.0	0.18
1,3-Dichloropropane			1.0 U					1.0	0.13
2,2-Dichloropropane			1.0 U					1.0	0.30
1,1-Dichloropropene			1.0 U					1.0	0.27
cis-1,3-Dichloropropene			1.0 U					1.0	0.28
trans-1,3-Dichloropropene			1.0 U					1.0	0.14

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QUALITY CONTROL REPORT
Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL	MDL
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QC Batch: 1313852 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank (Continued)

Analyzed: 12/30/2013 By: BAG

Unit: ug/L

Analytical Batch: 3L31024

Ethylbenzene			1.0 U					1.0	0.27
2-Hexanone			10 U					10	1.5
Isopropylbenzene			1.0 U					1.0	0.23
4-Isopropyltoluene			1.0 U			--		1.0	0.30
Methyl tert-Butyl Ether			5.0 U					5.0	0.10
Methylene Chloride			5.0 U					5.0	0.24
2-Butanone (MEK)			10 U					10	1.6
4-Methyl-2-pentanone (MIBK)			10 U					10	1.4
n-Propylbenzene			1.0 U					1.0	0.14
Styrene			1.0 U					1.0	0.12
1,1,1,2-Tetrachloroethane			1.0 U					1.0	0.18
1,1,2,2-Tetrachloroethane			1.0 U					1.0	0.22
Tetrachloroethene			1.0 U					1.0	0.16
Toluene			1.0 U					1.0	0.28
1,1,1-Trichloroethane			1.0 U					1.0	0.30
1,1,2-Trichloroethane			1.0 U					1.0	0.22
Trichloroethene			1.0 U					1.0	0.24
Trichlorofluoromethane			1.0 U					1.0	0.11
1,2,3-Trichloropropane			1.0 U					1.0	0.27
1,2,4-Trimethylbenzene			1.0 U					1.0	0.19
1,3,5-Trimethylbenzene			1.0 U					1.0	0.20
Vinyl Acetate			10 U					10	0.29
Vinyl Chloride			2.0 U					2.0	0.14
Xylene, Meta + Para			2.0 U					2.0	0.21
Xylene, Ortho			1.0 U					1.0	0.23
Xylene (Total)			3.0 U					3.0	0.44

Surrogates:

Dibromofluoromethane	96	85-118
1,2-Dichloroethane-d4	91	87-122
Toluene-d8	97	85-113
4-Bromofluorobenzene	89	82-110

Laboratory Control Sample

Analyzed: 12/30/2013 By: BAG

Unit: ug/L

Analytical Batch: 3L31024

Acetone	40.0	50.9	127	53-138	--			10	1.7
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QUALITY CONTROL REPORT
Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL	MDL
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QC Batch: 1313852 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Laboratory Control Sample (Continued)

Unit: ug/L	Analyzed:	12/30/2013	By: BAG
	Analytical Batch:	3L31024	

Benzene	40.0	40.6	102	84-119	--	1.0	0.32
Bromobenzene	40.0	36.6	92	79-127	--	1.0	0.11
Bromochloromethane	40.0	37.9	95	77-126	--	1.0	0.30
Bromodichloromethane	40.0	44.1	110	82-124	--	1.0	0.12
Bromoform	40.0	42.6	107	65-123	--	1.0	0.24
Bromomethane	40.0	35.8	90	55-142	--	1.0	0.23
n-Butylbenzene	40.0	39.4	99	79-123	--	1.0	0.20
sec-Butylbenzene	40.0	39.4	99	81-122	--	1.0	0.23
tert-Butylbenzene	40.0	39.2	98	80-122	--	1.0	0.25
Carbon Disulfide	40.0	54.8	137	70-131	--	5.0	0.28
Carbon Tetrachloride	40.0	46.8	117	79-127	--	1.0	0.23
Chlorobenzene	40.0	39.9	100	84-118	--	1.0	0.21
Chloroethane	40.0	47.0	118	76-124	--	1.0	0.22
Chloroform	40.0	41.3	103	82-119	--	1.0	0.26
Chloromethane	40.0	45.2	113	73-125	--	1.0	0.20
2-Chlorotoluene	40.0	40.0	100	82-123	--	1.0	0.27
4-Chlorotoluene	40.0	38.0	95	82-125	--	1.0	0.18
Dibromochloromethane	40.0	40.9	102	74-121	--	1.0	0.14
1,2-Dibromoethane	40.0	41.7	104	84-125	--	5.0	0.23
Dibromomethane	40.0	41.4	104	83-120	--	1.0	0.15
1,2-Dichlorobenzene	40.0	39.7	99	81-124	--	1.0	0.12
1,3-Dichlorobenzene	40.0	39.8	99	81-124	--	1.0	0.17
1,4-Dichlorobenzene	40.0	39.3	98	79-122	--	1.0	0.11
Dichlorodifluoromethane	40.0	44.1	110	68-130	--	10	0.23
1,1-Dichloroethane	40.0	41.4	104	80-118	--	1.0	0.28
1,2-Dichloroethane	40.0	41.0	103	81-122	--	1.0	0.15
1,1-Dichloroethene	40.0	46.1	115	77-123	--	1.0	0.21
cis-1,2-Dichloroethene	40.0	42.0	105	84-119	--	1.0	0.20
trans-1,2-Dichloroethene	40.0	42.6	106	76-126	--	1.0	0.22
1,2-Dichloroethene (Total)	80.0	84.6	106	82-119	--	2.0	0.42
1,2-Dichloropropane	40.0	39.3	98	82-122	--	1.0	0.18
1,3-Dichloropropane	40.0	39.3	98	84-125	--	1.0	0.13
2,2-Dichloropropane	40.0	44.5	111	55-141	--	1.0	0.30
1,1-Dichloropropene	40.0	41.9	105	84-122	--	1.0	0.27
cis-1,3-Dichloropropene	40.0	40.0	100	77-120	--	1.0	0.28
trans-1,3-Dichloropropene	40.0	40.6	101	73-116	--	1.0	0.14

Continued on next page

QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL	MDL
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QC Batch: 1313852 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Laboratory Control Sample (Continued)

Unit: ug/L

Analyzed: 12/30/2013 By: BAG
Analytical Batch: 3L31024

Ethylbenzene	40.0	39.5	99	87-119	--	1.0	0.27
2-Hexanone	40.0	42.6	106	55-141	--	10	1.5
Isopropylbenzene	40.0	39.2	98	76-126	--	1.0	0.23
4-Isopropyltoluene	40.0	39.5	99	80-126	--	1.0	0.30
Methyl tert-Butyl Ether	40.0	44.0	110	72-128	--	5.0	0.10
Methylene Chloride	40.0	43.2	108	75-129	--	5.0	0.24
2-Butanone (MEK)	40.0	43.5	109	52-142	--	10	1.6
4-Methyl-2-pentanone (MIBK)	40.0	41.5	104	60-142	--	10	1.4
n-Propylbenzene	40.0	39.8	99	82-123	--	1.0	0.14
Styrene	40.0	40.3	101	84-120	--	1.0	0.12
1,1,1,2-Tetrachloroethane	40.0	44.7	112	84-122	--	1.0	0.18
1,1,2,2-Tetrachloroethane	40.0	38.6	97	70-137	--	1.0	0.22
Tetrachloroethene	40.0	41.8	104	81-117	--	1.0	0.16
Toluene	40.0	41.4	103	85-118	--	1.0	0.28
1,1,1-Trichloroethane	40.0	44.7	112	81-122	--	1.0	0.30
1,1,2-Trichloroethane	40.0	41.6	104	83-121	--	1.0	0.22
Trichloroethene	40.0	42.6	107	82-119	--	1.0	0.24
Trichlorofluoromethane	40.0	46.1	115	76-128	--	1.0	0.11
1,2,3-Trichloropropane	40.0	40.5	101	78-134	--	1.0	0.27
1,2,4-Trimethylbenzene	40.0	39.0	98	83-124	--	1.0	0.19
1,3,5-Trimethylbenzene	40.0	38.8	97	82-125	--	1.0	0.20
Vinyl Acetate	40.0	34.5	86	45-155	--	10	0.29
Vinyl Chloride	40.0	45.9	115	77-123	--	2.0	0.14
Xylene, Meta + Para	80.0	80.4	100	86-119	--	2.0	0.21
Xylene, Ortho	40.0	40.5	101	86-120	--	1.0	0.23
Xylene (Total)	120	121	101	86-119	--	3.0	0.44

Surrogates:

Dibromofluoromethane	103	85-118
1,2-Dichloroethane-d4	97	87-122
Toluene-d8	101	85-113
4-Bromofluorobenzene	94	82-110

QUALITY CONTROL REPORT

Total Metals by EPA 6000/7000 Series Methods

QC Type	Sample Conc.	Spike Qty.	Result	Unit	Spike % Rec.	Control Limits	RPD	RPD Limits	RL	MDL
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Analyte: Calcium/USEPA-6010C

QC Batch: 1313615 (3010A Digestion)						Analyzed: 12/30/2013		By: CKD		
Method Blank			0.50 U	mg/L					0.50	0.23
Laboratory Control Sample		20.0	20.4	mg/L	102	80-120			0.50	0.23

Analyte: Magnesium/USEPA-6010C

QC Batch: 1313615 (3010A Digestion)						Analyzed: 12/30/2013		By: CKD		
Method Blank			0.50 U	mg/L					0.50	0.14
Laboratory Control Sample		20.0	20.7	mg/L	103	80-120			0.50	0.14

1312305-04 [C-4]

Matrix Spike	51.5	20.0	71.7	mg/L	101	75-125			0.50	0.14
Matrix Spike Duplicate	51.5	20.0	67.4	mg/L	79	75-125	6	20	0.50	0.14

Analyte: Sodium/USEPA-6010C

QC Batch: 1313615 (3010A Digestion)						Analyzed: 12/30/2013		By: CKD		
Method Blank			0.15 J	mg/L					0.50	0.13
Laboratory Control Sample		20.0	21.6	mg/L	108	80-120			0.50	0.13

QUALITY CONTROL REPORT

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

QC Type	Sample Conc.	Spike Qty.	Result	Unit	Spike % Rec.	Control Limits	RPD	RPD Limits	RL	MDL
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Analyte: Carbon, Total Organic/SM 5310 C-2011

QC Batch: 1313744 (Method Specific Preparation)						Analyzed: 12/26/2013		By: KAR		
Method Blank			0.50 U	mg/L					0.50	0.13
Laboratory Control Sample		2.00	2.07	mg/L	104	84-118			0.50	0.13
1312305-01 [C-1]										
Matrix Spike	1.91	2.00	4.16	mg/L	113	75-124			0.50	0.13
Matrix Spike Duplicate	1.91	2.00	4.12	mg/L	111	75-124	1	20	0.50	0.13

Analyte: Chloride/SM 4500-Cl E-2011

QC Batch: 1313768 (General Inorganic Prep)						Analyzed: 12/30/2013		By: LMA		
Method Blank			0.39 J	mg/L					1.0	0.25
Laboratory Control Sample		50.0	51.1	mg/L	102	90-106			1.0	0.25
1312305-01 [C-1]										
Matrix Spike	28.4	50.0	77.7	mg/L	99	72-123			1.0	0.25
Matrix Spike Duplicate	28.4	50.0	78.3	mg/L	100	72-123	0.8	20	1.0	0.25


 5560 Corporate Exchange Court SE
 Grand Rapids, MI 49512
 Phone (616) 975-4500 Fax (616) 942-7463
 www.trimatrixlabs.com

Chain of Custody Record

COC No.

146870

For Lab Use Only

Client Name

 VOA Rack/Tray
 2 Boxes
 Receipt Log No.
 19-1

 Client Name
 TETRA TECH

 Project Name
 GE WILCOXES
 Client Project No. / P.O. No.
 117-220409201

Project Chemist

 Address
 4500 WOODBURN RD #400
 City, State Zip
 STEAMING VA 20166

 Invoice To
☐ Client
☐ Other (comments)

 Work Order No.
 1312305

 Phone/Fax
 403-444-7001 / 703-444-1685
 Email
 DAW.BUENEL@TETRA-TECH.COM

 Contact/Report To
 DAW BUENEL

Analyses Requested

Pg. 1 of 1

D	C	D	A	B
VOCs				
TOC				
DISSOLVED METALS				
CI-				
Ca, Na, Mg				

A	B	C	D	E	F	G	H
NONE pH-7	HNO ₃ pH-2	H ₂ SO ₄ pH-2	1+1 HCl pH-2	NaOH pH-12	ZnAc/NaOH pH-9	MeOH	Other (note below)

Schedule	Matrix Code	Sample Number	Field Sample ID	Cooler ID	Sample Date	Sample Time	Matrix	Number of Containers Submitted	Total	Sample Comments
		-01	C-1	2	12/11/13	935	X AQ 3 3 3 1	1		
		-02	C-2			1005				
		-03	C-3			1030				
		-04	C-4			1145				
		-05	C-5			1330				
		-06	C-6			1435				
		-07	C-7			1205				
		-08	TRAP BLANK							
			STORAGE BLANK							
			2N 12-18							

Sampled By (print)	How Shipped?	Hand	Carrier	Tracking No.	Comments
JUSTIN COOPER			FEDEX		ANALYZE TRAP BLANK
Sampler's Signature					
Company					
TETRA TECH					

WHITE COPY - REPORT

YELLOW COPY - LABORATORY

PINK COPY - FIELD

SAMPLE RECEIVING / LOG-IN CHECKLIST



Client: <u>Tetra Tech</u>	Work Order #: <u>1312305</u>
Receipt Record Page/Line #: <u>19-1</u>	Project/Chemist: <u>GLW</u> Sample #: <u></u>

Recorded by (initials/date): <u>LA 12/19/13</u>	Cooler ☒ Box ☐ Other ☐	Qty Received: <u>2</u>	Thermometer Used: ☒ IR Gun (#202) ☐ Digital Thermometer (#54) ☐ Other (# <u></u>)
---	--	------------------------	--

Cooler #	Time	Cooler #	Time	Cooler #	Time	Cooler #	Time
3229	0837	1455	0840				
Custody Seals: ☐ None ☒ Present / Intact ☐ Present / Not Intact		Custody Seals: ☐ None ☒ Present / Intact ☐ Present / Not Intact		Custody Seals: ☐ None ☐ Present / Intact ☐ Present / Not Intact		Custody Seals: ☐ None ☐ Present / Intact ☐ Present / Not Intact	
Coolant Location: <u>Dispersed / Top / Middle / Bottom</u>		Coolant Location: <u>Dispersed / Top / Middle / Bottom</u>		Coolant Location: <u>Dispersed / Top / Middle / Bottom</u>		Coolant Location: <u>Dispersed / Top / Middle / Bottom</u>	
Coolant/Temperature Taken Via:		Coolant/Temperature Taken Via:		Coolant/Temperature Taken Via:		Coolant/Temperature Taken Via:	
☐ Loose ice / Avg 2-3 containers ☒ Bagged ice / Avg 2-3 containers ☐ Blue ice / Avg 2-3 containers ☐ None / Avg 2-3 containers		☐ Loose ice / Avg 2-3 containers ☒ Bagged ice / Avg 2-3 containers ☐ Blue ice / Avg 2-3 containers ☐ None / Avg 2-3 containers		☐ Loose ice / Avg 2-3 containers ☐ Bagged ice / Avg 2-3 containers ☐ Blue ice / Avg 2-3 containers ☐ None / Avg 2-3 containers		☐ Loose ice / Avg 2-3 containers ☐ Bagged ice / Avg 2-3 containers ☐ Blue ice / Avg 2-3 containers ☐ None / Avg 2-3 containers	
Alternate Temperature Taken Via:		Alternate Temperature Taken Via:		Alternate Temperature Taken Via:		Alternate Temperature Taken Via:	
☒ Temperature Blank (TB) ☐ 1 Container		☒ Temperature Blank (TB) ☐ 1 Container		☐ Temperature Blank (TB) ☐ 1 Container		☐ Temperature Blank (TB) ☐ 1 Container	
Recorded °C	Correction Factor °C	Actual °C	Recorded °C	Correction Factor °C	Actual °C	Recorded °C	Correction Factor °C
Temp Blank: <u>2.6</u>	<u>0.4</u>	<u>2.6</u>	Temp Blank: <u>4.1</u>		<u>4.1</u>	Temp Blank: <u></u>	
TB location: <u>Representative</u> / Not Representative		TB location: <u>Representative</u> / Not Representative		TB location: <u>Representative</u> / Not Representative		TB location: <u>Representative</u> / Not Representative	
1 <u>2.6</u>	<u>-</u>	<u>2.6</u>	1 <u>2.7</u>	<u>-</u>	<u>2.7</u>	1 <u></u>	<u></u>
2 <u>1.9</u>	<u>-</u>	<u>1.9</u>	2 <u>3.5</u>	<u>-</u>	<u>3.8</u>	2 <u></u>	<u></u>
3 <u>2.3</u>	<u>-</u>	<u>2.3</u>	3 <u>3.1</u>	<u>-</u>	<u>3.1</u>	3 <u></u>	<u></u>
Average °C <u>2.3</u>		Average °C <u>3.2</u>		Average °C <u></u>		Average °C <u></u>	
☒ Cooler ID on COC?		☒ Cooler ID on COC?		☐ Cooler ID on COC?		☐ Cooler ID on COC?	
☒ VOC Trip Blank received?		☒ VOC Trip Blank received?		☐ VOC Trip Blank received?		☐ VOC Trip Blank received?	

If any shaded areas checked, complete Sample Receiving Non-Conformance and/or Inventory Form

Paperwork Received Yes ☒ No ☐ Chain of Custody record(s)? If No, Initiated By <u></u> Received for Lab Signed/Date/Time? <u></u> ☐ Shipping document? ☒ Other <u></u> COC Information ☒ TriMatrix COC ☐ Other <u>146870, 146871</u> COC ID Numbers: <u></u>	Check Sample Preservation N/A ☒ Yes ☐ No ☐ ☒ Average sample temperature ≤ 6° C? ☐ Was thermal preservation required? If "No", Project Chemist Approval Initials: <u></u> If "Yes" Completed Non Con Cooler - Cont Inventory Form? ☒ Completed Sample Preservation Verification Form? ☒ Samples chemically preserved correctly? If "No", added orange tag? ☒ Received pre-preserved VOC soils? ☐ MeOH ☐ Na ₂ SO ₄						
Check COC for Accuracy Yes ☒ No ☐ ☐ Analysis Requested? ☒ Sample ID matches COC? ☒ Sample Date and Time matches COC? ☒ Container type completed on COC? ☒ All container types indicated are received?	Check for Short Hold-Time Prep/Analyses ☐ Bacteriological ☐ Air Bags ☐ EnCores / Methanol Pre-Preserved ☐ Formaldehyde/Aldehyde ☒ Green-tagged containers ☐ Yellow/White-tagged 1L ambers (SV Prep-Lab)						
Sample Condition Summary N/A ☐ Yes ☒ No ☐ ☐ Broken containers/lids? ☐ Missing or incomplete labels? ☐ Illegible information on labels? ☐ Low volume received? ☐ Inappropriate or non-TriMatrix containers received? ☐ VOC vials / TOX containers have headspace? ☐ Extra sample locations / containers not listed on COC?	Notes AFTER HOURS ONLY: COPIES OF COC TO LAB AREA(S) ☐ NONE RECEIVED ☒ RECEIVED, COCs to LAB(S) <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tr> <td>Trip Blank received</td> <td>Trip Blank not listed on COC</td> </tr> <tr> <td>Cooler Received (Date/Time) <u>12/19/13 0800</u></td> <td>Paperwork Delivered (Date/Time) <u>12/19/13 0922</u></td> </tr> <tr> <td colspan="2" style="text-align: right;">≤ 1 Hour Goal Met? <u>Yes</u> / <u>No</u></td> </tr> </table>	Trip Blank received	Trip Blank not listed on COC	Cooler Received (Date/Time) <u>12/19/13 0800</u>	Paperwork Delivered (Date/Time) <u>12/19/13 0922</u>	≤ 1 Hour Goal Met? <u>Yes</u> / <u>No</u>	
Trip Blank received	Trip Blank not listed on COC						
Cooler Received (Date/Time) <u>12/19/13 0800</u>	Paperwork Delivered (Date/Time) <u>12/19/13 0922</u>						
≤ 1 Hour Goal Met? <u>Yes</u> / <u>No</u>							



SAMPLE PRESERVATION VERIFICATION FORM

page ____ of ____

Client <i>Tetra Tech</i>	Work Order # <i>1312305</i>
Receipt Log # <i>19-1</i>	Completed By (initials/date) <i>AD 12/19/13</i>
Project Chemist	

COC ID # <i>146870</i>				Adjusted by: _____ Date: _____		DO NOT ADJUST pH FOR THESE CONTAINER TYPES		
Container Type	5 / 23	4	13	3	6	15		
Tag Color	Lt. Blue	Blue	Brown	Green	Red	Red Stripe		
Preservative	NaOH	H ₂ SO ₄	H ₂ SO ₄	None	HNO ₃	HNO ₃		
Expected pH	>12	<2	<2	6-8	<2	<2		
COC Line #1				✓				
COC Line #2				✓				
COC Line #3				✓				
COC Line #4				✓	✓			
COC Line #5				✓				
COC Line #6				✓				
COC Line #7				✓	✓			
COC Line #8								
COC Line #9								
COC Line #10								

Comments

Ph Strip Lot #

HC378115

Aqueous Samples: For each sample and container type, check the box if pH is acceptable. If pH is not acceptable for any sample container, record pH in box, and note on Sample Receiving Checklist and on Sample Receiving Non-Conformance Form. If approved by Project Chemist, add acid or base to the sample to achieve the correct pH. Add up to, but do not exceed 2x the volume initially added at container prep (see table below for initial volumes used). Add orange pH tag to sample container and record information requested. Record adjusted pH on this form. Do not adjust pH for container types 3, 6, and 15.

COC ID # <i>146871</i>				Adjusted by: _____ Date: _____		DO NOT ADJUST pH FOR THESE CONTAINER TYPES		
Container Type	5 / 23	4	13	3	6	15		
Tag Color	Lt. Blue	Blue	Brown	Green	Red	Red Stripe		
Preservative	NaOH	H ₂ SO ₄	H ₂ SO ₄	None	HNO ₃	HNO ₃		
Expected pH	>12	<2	<2	6-8	<2	<2		
COC Line #1				✓				
COC Line #2				✓				
COC Line #3				✓				
COC Line #4				✓				
COC Line #5				✓				
COC Line #6				✓				
COC Line #7				✓				
COC Line #8								
COC Line #9								
COC Line #10								

Comments

Container Size (mL)	Original Vol. of Preservative (mL)
Container Type 5	NaOH
500	2.5
1000	5.0
Container Type 4	H ₂ SO ₄
125	0.5
250	1.0
500	2.0
1000	4.0
Container Type 13	H ₂ SO ₄
500	2.5

January 06, 2014

Tetra Tech GEO - VA
Attn: Mr. Dan Burnell
21335 Signal Hill Plaza; Suite 100
Sterling, VA 20164

Project: GE Caribe - Vieques, PR

Dear Mr. Dan Burnell,

Enclosed is a copy of the laboratory report for the following work order(s) received by TriMatrix Laboratories:

Work Order	Received	Description
1312307	12/19/2013	Laboratory Services

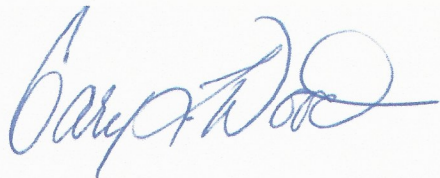
This report relates only to the sample(s) as received. Test results are in compliance with the requirements of the National Environmental Laboratory Accreditation Program (NELAP) and/or one of the following certification programs:

AClass DoD-ELAP/ISO17025 (#ADE-1542); Arkansas DEP (#88-0730/12-056-0); Florida DEP (#E87622-24); Georgia EPD (#E87622-24); Illinois DEP (#200026/003059); Kansas DPH (#E-10302); Kentucky DEP (#0021); Louisiana DEP (#83658); Michigan DPH (#0034); Minnesota DPH (#491715); New York ELAP (#11776/48855); North Carolina DNRE (#659); Texas CEQ (#T104704495-13-3); Virginia DCLS (#460153/1622); Wisconsin DNR (#999472650); USDA Soil Import Permit (#P330-12-00236).

Any qualification or narration of results, including sample acceptance requirements and test exceptions to the above referenced programs, is presented in the Statement of Data Qualifications and Project Technical Narrative sections of this report. Estimates of analytical uncertainties and certification documents for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,



Gary L. Wood
Project Chemist



PROJECT TECHNICAL NARRATIVE(s)**Dissolved Gases in Water by RSK-175 Headspace Analysis**

Narrative: The analyte concentration in the associated MB was greater than the MDL but less than the RL. The positive sample result, which was greater than 5 times the MB value, is not qualified.

Analysis: RSK-175

Sample/Analyte: 1312307-04 C-10

Ethylene

PROJECT TECHNICAL NARRATIVE(s)**Volatile Organic Compounds by EPA Method 8260B**

Narrative: The analyte concentration in the associated MB was greater than or equal to the RL. The positive sample result, which was greater than 5 times the MB value, is not qualified.

Analysis: USEPA-8260B

Sample/Analyte: 1312307-04 C-10

Acetone

STATEMENT OF DATA QUALIFICATIONS**Dissolved Gases in Water by RSK-175 Headspace Analysis**

Qualification: The analyte concentration in the associated MB was greater than the MDL but less than the RL. The positive sample result, which was less than 5 times the MB value, is considered estimated.

Analysis: RSK-175

Sample/Analyte: 1312307-06

C-11

Ethylene

STATEMENT OF DATA QUALIFICATIONS

Volatile Organic Compounds by EPA Method 8260B

Qualification: The LCS recovery exceeded the upper control limit. Positive results for this analyte in all samples in the associated QC batch are considered estimated. Non-detectable results are not qualified.

Analysis: USEPA-8260B

Sample/Analyte:	1312307-01	C-8	Carbon Disulfide
	1312307-02	C-9	Carbon Disulfide

Qualification: The corresponding CCV for this analytical batch had a recovery exceeding the upper control limit of the method. A positive result for this analyte in any associated samples are considered estimated. Non-detectable results are not qualified.

Analysis: USEPA-8260B

Sample/Analyte:	1312307-01	C-8	Carbon Disulfide
	1312307-02	C-9	Carbon Disulfide

Qualification: The analyte concentration in the associated MB was greater than the MDL but less than the RL. The positive sample result, which was less than 5 times the MB value, is considered estimated.

Analysis: USEPA-8260B

Sample/Analyte:	1312307-03	C-9-FB	Acetone
	1312307-05	C-10-EB	Acetone
	1312307-08	Trip Blank TM3229	Acetone

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-8**
 Lab Sample ID: **1312307-01**
 Matrix: Water

Work Order: **1312307**
 Description: Laboratory Services
 Sampled: 12/17/13 12:55
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00

Dissolved Gases in Water by RSK-175 Headspace Analysis

Analyte	Analytical Result	RL	MDL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Ethane	1.0 U	1.0	0.24	ug/L	1	RSK-175	12/27/13 13:14	JMF	1313729
Methane	22	0.50	0.14	ug/L	1	RSK-175	12/27/13 13:14	JMF	1313729
Ethylene	1.0 U	1.0	0.25	ug/L	1	RSK-175	12/27/13 13:14	JMF	1313729

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-8**
 Lab Sample ID: **1312307-01**
 Matrix: Water
 Unit: ug/L
 Dilution Factor: 1
 QC Batch: 1313852

Work Order: **1312307**
 Description: Laboratory Services
 Sampled: 12/17/13 12:55
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00
 Prepared: 12/30/13 17:00 By: BAG
 Analyzed: 12/30/13 21:28 By: BAG
 Analytical Batch: 3L31024

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL	MDL
67-64-1	Acetone	10U	10	1.7
71-43-2	Benzene	1.0U	1.0	0.32
108-86-1	Bromobenzene	1.0U	1.0	0.11
74-97-5	Bromochloromethane	1.0U	1.0	0.30
75-27-4	Bromodichloromethane	1.0U	1.0	0.12
75-25-2	Bromoform	1.0U	1.0	0.24
74-83-9	Bromomethane	1.0U	1.0	0.23
104-51-8	n-Butylbenzene	1.0U	1.0	0.20
135-98-8	sec-Butylbenzene	1.0U	1.0	0.23
98-06-6	tert-Butylbenzene	1.0U	1.0	0.25
*75-15-0	Carbon Disulfide	5.0U	5.0	0.28
56-23-5	Carbon Tetrachloride	1.0U	1.0	0.23
108-90-7	Chlorobenzene	1.0U	1.0	0.21
75-00-3	Chloroethane	1.0U	1.0	0.22
67-66-3	Chloroform	1.0U	1.0	0.26
74-87-3	Chloromethane	1.0U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0U	1.0	0.27
106-43-4	4-Chlorotoluene	1.0U	1.0	0.18
124-48-1	Dibromochloromethane	1.0U	1.0	0.14
106-93-4	1,2-Dibromoethane	5.0U	5.0	0.23
74-95-3	Dibromomethane	1.0U	1.0	0.15
95-50-1	1,2-Dichlorobenzene	1.0U	1.0	0.12
541-73-1	1,3-Dichlorobenzene	1.0U	1.0	0.17
106-46-7	1,4-Dichlorobenzene	1.0U	1.0	0.11
75-71-8	Dichlorodifluoromethane	10U	10	0.23
75-34-3	1,1-Dichloroethane	11	1.0	0.28
107-06-2	1,2-Dichloroethane	1.0U	1.0	0.15
75-35-4	1,1-Dichloroethene	4.5	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	3.9	1.0	0.20

Continued on next page

*See Statement of Data Qualifications

ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312307
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	C-8	Sampled:	12/17/13 12:55
Lab Sample ID:	1312307-01	Sampled By:	Justin Cooper
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/30/13 17:00 By: BAG
Dilution Factor:	1	Analyzed:	12/30/13 21:28 By: BAG
QC Batch:	1313852	Analytical Batch:	3L31024

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL	MDL
156-60-5	trans-1,2-Dichloroethene	1.0U	1.0	0.22
540-59-0	1,2-Dichloroethene (Total)	3.9	2.0	0.42
78-87-5	1,2-Dichloropropane	1.0U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0U	1.0	0.13
594-20-7	2,2-Dichloropropane	1.0U	1.0	0.30
563-58-6	1,1-Dichloropropene	1.0U	1.0	0.27
10061-01-5	cis-1,3-Dichloropropene	1.0U	1.0	0.28
10061-02-6	trans-1,3-Dichloropropene	1.0U	1.0	0.14
100-41-4	Ethylbenzene	1.0U	1.0	0.27
591-78-6	2-Hexanone	10U	10	1.5
98-82-8	Isopropylbenzene	1.0U	1.0	0.23
99-87-6	4-Isopropyltoluene	1.0U	1.0	0.30
1634-04-4	Methyl tert-Butyl Ether	5.0U	5.0	0.10
75-09-2	Methylene Chloride	5.0U	5.0	0.24
78-93-3	2-Butanone (MEK)	10U	10	1.6
108-10-1	4-Methyl-2-pentanone (MIBK)	10U	10	1.4
103-65-1	n-Propylbenzene	1.0U	1.0	0.14
100-42-5	Styrene	1.0U	1.0	0.12
630-20-6	1,1,1,2-Tetrachloroethane	1.0U	1.0	0.18
79-34-5	1,1,2,2-Tetrachloroethane	1.0U	1.0	0.22
127-18-4	Tetrachloroethene	1.1	1.0	0.16
108-88-3	Toluene	1.0U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0U	1.0	0.30
79-00-5	1,1,2-Trichloroethane	1.0U	1.0	0.22
79-01-6	Trichloroethene	37	1.0	0.24
75-69-4	Trichlorofluoromethane	1.0U	1.0	0.11
96-18-4	1,2,3-Trichloropropane	1.0U	1.0	0.27
95-63-6	1,2,4-Trimethylbenzene	1.0U	1.0	0.19
108-67-8	1,3,5-Trimethylbenzene	1.0U	1.0	0.20
108-05-4	Vinyl Acetate	10U	10	0.29
75-01-4	Vinyl Chloride	2.0U	2.0	0.14

Continued on next page

ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312307
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	C-8	Sampled:	12/17/13 12:55
Lab Sample ID:	1312307-01	Sampled By:	Justin Cooper
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/30/13 17:00 By: BAG
Dilution Factor:	1	Analyzed:	12/30/13 21:28 By: BAG
QC Batch:	1313852	Analytical Batch:	3L31024

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL	MDL
179601-23-1	Xylene, Meta + Para	2.0U	2.0	0.21
95-47-6	Xylene, Ortho	1.0U	1.0	0.23
1330-20-7	Xylene (Total)	3.0U	3.0	0.44

Surrogates:
% Recovery
Control Limits
Dibromofluoromethane
87
85-118
1,2-Dichloroethane-d4
96
87-122
Toluene-d8
98
85-113
4-Bromofluorobenzene
102
82-110

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-8**
 Lab Sample ID: **1312307-01**
 Matrix: Water

Work Order: **1312307**
 Description: Laboratory Services
 Sampled: 12/17/13 12:55
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	MDL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	340	5.0	1.2	mg/L	5	SM 4500-Cl E-2011	12/30/13 08:39	LMA	1313768
Carbon, Total Organic	2.5	0.50	0.13	mg/L	1	SM 5310 C-2011	12/26/13 22:30	KAR	1313744

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-9**
 Lab Sample ID: **1312307-02**
 Matrix: Water

Work Order: **1312307**
 Description: Laboratory Services
 Sampled: 12/17/13 15:45
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00

Dissolved Gases in Water by RSK-175 Headspace Analysis

Analyte	Analytical Result	RL	MDL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Ethane	1.0 U	1.0	0.24	ug/L	1	RSK-175	12/27/13 13:19	JMF	1313729
Methane	0.46 J	0.50	0.14	ug/L	1	RSK-175	12/27/13 13:19	JMF	1313729
Ethylene	1.0 U	1.0	0.25	ug/L	1	RSK-175	12/27/13 13:19	JMF	1313729

ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312307
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	C-9	Sampled:	12/17/13 15:45
Lab Sample ID:	1312307-02	Sampled By:	Justin Cooper
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/30/13 17:00 By: BAG
Dilution Factor:	1	Analyzed:	12/30/13 21:55 By: BAG
QC Batch:	1313852	Analytical Batch:	3L31024

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL	MDL
67-64-1	Acetone	10U	10	1.7
71-43-2	Benzene	1.0U	1.0	0.32
108-86-1	Bromobenzene	1.0U	1.0	0.11
74-97-5	Bromochloromethane	1.0U	1.0	0.30
75-27-4	Bromodichloromethane	1.0U	1.0	0.12
75-25-2	Bromoform	1.0U	1.0	0.24
74-83-9	Bromomethane	1.0U	1.0	0.23
104-51-8	n-Butylbenzene	1.0U	1.0	0.20
135-98-8	sec-Butylbenzene	1.0U	1.0	0.23
98-06-6	tert-Butylbenzene	1.0U	1.0	0.25
*75-15-0	Carbon Disulfide	5.0U	5.0	0.28
56-23-5	Carbon Tetrachloride	1.0U	1.0	0.23
108-90-7	Chlorobenzene	1.0U	1.0	0.21
75-00-3	Chloroethane	1.0U	1.0	0.22
67-66-3	Chloroform	1.0U	1.0	0.26
74-87-3	Chloromethane	1.0U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0U	1.0	0.27
106-43-4	4-Chlorotoluene	1.0U	1.0	0.18
124-48-1	Dibromochloromethane	1.0U	1.0	0.14
106-93-4	1,2-Dibromoethane	5.0U	5.0	0.23
74-95-3	Dibromomethane	1.0U	1.0	0.15
95-50-1	1,2-Dichlorobenzene	1.0U	1.0	0.12
541-73-1	1,3-Dichlorobenzene	1.0U	1.0	0.17
106-46-7	1,4-Dichlorobenzene	1.0U	1.0	0.11
75-71-8	Dichlorodifluoromethane	10U	10	0.23
75-34-3	1,1-Dichloroethane	1.0U	1.0	0.28
107-06-2	1,2-Dichloroethane	1.0U	1.0	0.15
75-35-4	1,1-Dichloroethene	1.0U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	1.0U	1.0	0.20

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*See Statement of Data Qualifications

ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312307
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	C-9	Sampled:	12/17/13 15:45
Lab Sample ID:	1312307-02	Sampled By:	Justin Cooper
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/30/13 17:00 By: BAG
Dilution Factor:	1	Analyzed:	12/30/13 21:55 By: BAG
QC Batch:	1313852	Analytical Batch:	3L31024

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL	MDL
156-60-5	trans-1,2-Dichloroethene	1.0U	1.0	0.22
540-59-0	1,2-Dichloroethene (Total)	2.0U	2.0	0.42
78-87-5	1,2-Dichloropropane	1.0U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0U	1.0	0.13
594-20-7	2,2-Dichloropropane	1.0U	1.0	0.30
563-58-6	1,1-Dichloropropene	1.0U	1.0	0.27
10061-01-5	cis-1,3-Dichloropropene	1.0U	1.0	0.28
10061-02-6	trans-1,3-Dichloropropene	1.0U	1.0	0.14
100-41-4	Ethylbenzene	1.0U	1.0	0.27
591-78-6	2-Hexanone	10U	10	1.5
98-82-8	Isopropylbenzene	1.0U	1.0	0.23
99-87-6	4-Isopropyltoluene	1.0U	1.0	0.30
1634-04-4	Methyl tert-Butyl Ether	5.0U	5.0	0.10
75-09-2	Methylene Chloride	5.0U	5.0	0.24
78-93-3	2-Butanone (MEK)	10U	10	1.6
108-10-1	4-Methyl-2-pentanone (MIBK)	10U	10	1.4
103-65-1	n-Propylbenzene	1.0U	1.0	0.14
100-42-5	Styrene	1.0U	1.0	0.12
630-20-6	1,1,1,2-Tetrachloroethane	1.0U	1.0	0.18
79-34-5	1,1,2,2-Tetrachloroethane	1.0U	1.0	0.22
127-18-4	Tetrachloroethene	1.0U	1.0	0.16
108-88-3	Toluene	1.0U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0U	1.0	0.30
79-00-5	1,1,2-Trichloroethane	1.0U	1.0	0.22
79-01-6	Trichloroethene	0.80J	1.0	0.24
75-69-4	Trichlorofluoromethane	1.0U	1.0	0.11
96-18-4	1,2,3-Trichloropropane	1.0U	1.0	0.27
95-63-6	1,2,4-Trimethylbenzene	1.0U	1.0	0.19
108-67-8	1,3,5-Trimethylbenzene	1.0U	1.0	0.20
108-05-4	Vinyl Acetate	10U	10	0.29
75-01-4	Vinyl Chloride	2.0U	2.0	0.14

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ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312307
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	C-9	Sampled:	12/17/13 15:45
Lab Sample ID:	1312307-02	Sampled By:	Justin Cooper
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/30/13 17:00 By: BAG
Dilution Factor:	1	Analyzed:	12/30/13 21:55 By: BAG
QC Batch:	1313852	Analytical Batch:	3L31024

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL	MDL
179601-23-1	Xylene, Meta + Para	2.0U	2.0	0.21
95-47-6	Xylene, Ortho	1.0U	1.0	0.23
1330-20-7	Xylene (Total)	3.0U	3.0	0.44

Surrogates:
% Recovery
Control Limits
Dibromofluoromethane
90
85-118
1,2-Dichloroethane-d4
97
87-122
Toluene-d8
99
85-113
4-Bromofluorobenzene
102
82-110

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-9**
 Lab Sample ID: **1312307-02**
 Matrix: Water

Work Order: **1312307**
 Description: Laboratory Services
 Sampled: 12/17/13 15:45
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	MDL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	17	1.0	0.25	mg/L	1	SM 4500-Cl E-2011	12/30/13 08:05	LMA	1313768
Carbon, Total Organic	0.91	0.50	0.13	mg/L	1	SM 5310 C-2011	12/26/13 22:41	KAR	1313744

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-9-FB**
 Lab Sample ID: **1312307-03**
 Matrix: Water

Work Order: **1312307**
 Description: Laboratory Services
 Sampled: 12/17/13 16:00
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00

Dissolved Gases in Water by RSK-175 Headspace Analysis

Analyte	Analytical Result	RL	MDL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Ethane	1.0 U	1.0	0.24	ug/L	1	RSK-175	12/27/13 13:22	JMF	1313729
Methane	0.50 U	0.50	0.14	ug/L	1	RSK-175	12/27/13 13:22	JMF	1313729
Ethylene	1.0 U	1.0	0.25	ug/L	1	RSK-175	12/27/13 13:22	JMF	1313729

ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312307
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	C-9-FB	Sampled:	12/17/13 16:00
Lab Sample ID:	1312307-03	Sampled By:	Justin Cooper
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/27/13 13:00 By: BAG
Dilution Factor:	1	Analyzed:	12/27/13 20:11 By: BAG
QC Batch:	1313783	Analytical Batch:	3L30030

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL	MDL
*67-64-1	Acetone	7.8J	10	1.7
71-43-2	Benzene	1.0U	1.0	0.32
108-86-1	Bromobenzene	1.0U	1.0	0.11
74-97-5	Bromochloromethane	1.0U	1.0	0.30
75-27-4	Bromodichloromethane	1.0U	1.0	0.12
75-25-2	Bromoform	1.0U	1.0	0.24
74-83-9	Bromomethane	1.0U	1.0	0.23
104-51-8	n-Butylbenzene	1.0U	1.0	0.20
135-98-8	sec-Butylbenzene	1.0U	1.0	0.23
98-06-6	tert-Butylbenzene	1.0U	1.0	0.25
75-15-0	Carbon Disulfide	5.0U	5.0	0.28
56-23-5	Carbon Tetrachloride	1.0U	1.0	0.23
108-90-7	Chlorobenzene	1.0U	1.0	0.21
75-00-3	Chloroethane	1.0U	1.0	0.22
67-66-3	Chloroform	1.0U	1.0	0.26
74-87-3	Chloromethane	1.0U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0U	1.0	0.27
106-43-4	4-Chlorotoluene	1.0U	1.0	0.18
124-48-1	Dibromochloromethane	1.0U	1.0	0.14
106-93-4	1,2-Dibromoethane	5.0U	5.0	0.23
74-95-3	Dibromomethane	1.0U	1.0	0.15
95-50-1	1,2-Dichlorobenzene	1.0U	1.0	0.12
541-73-1	1,3-Dichlorobenzene	1.0U	1.0	0.17
106-46-7	1,4-Dichlorobenzene	1.0U	1.0	0.11
75-71-8	Dichlorodifluoromethane	10U	10	0.23
75-34-3	1,1-Dichloroethane	1.0U	1.0	0.28
107-06-2	1,2-Dichloroethane	1.0U	1.0	0.15
75-35-4	1,1-Dichloroethene	1.0U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	1.0U	1.0	0.20

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*See Statement of Data Qualifications

ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312307
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	C-9-FB	Sampled:	12/17/13 16:00
Lab Sample ID:	1312307-03	Sampled By:	Justin Cooper
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/27/13 13:00 By: BAG
Dilution Factor:	1	Analyzed:	12/27/13 20:11 By: BAG
QC Batch:	1313783	Analytical Batch:	3L30030

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL	MDL
156-60-5	trans-1,2-Dichloroethene	1.0U	1.0	0.22
540-59-0	1,2-Dichloroethene (Total)	2.0U	2.0	0.42
78-87-5	1,2-Dichloropropane	1.0U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0U	1.0	0.13
594-20-7	2,2-Dichloropropane	1.0U	1.0	0.30
563-58-6	1,1-Dichloropropene	1.0U	1.0	0.27
10061-01-5	cis-1,3-Dichloropropene	1.0U	1.0	0.28
10061-02-6	trans-1,3-Dichloropropene	1.0U	1.0	0.14
100-41-4	Ethylbenzene	1.0U	1.0	0.27
591-78-6	2-Hexanone	10U	10	1.5
98-82-8	Isopropylbenzene	1.0U	1.0	0.23
99-87-6	4-Isopropyltoluene	1.0U	1.0	0.30
1634-04-4	Methyl tert-Butyl Ether	5.0U	5.0	0.10
75-09-2	Methylene Chloride	5.0U	5.0	0.24
78-93-3	2-Butanone (MEK)	10U	10	1.6
108-10-1	4-Methyl-2-pentanone (MIBK)	10U	10	1.4
103-65-1	n-Propylbenzene	1.0U	1.0	0.14
100-42-5	Styrene	1.0U	1.0	0.12
630-20-6	1,1,1,2-Tetrachloroethane	1.0U	1.0	0.18
79-34-5	1,1,2,2-Tetrachloroethane	1.0U	1.0	0.22
127-18-4	Tetrachloroethene	1.0U	1.0	0.16
108-88-3	Toluene	1.0U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0U	1.0	0.30
79-00-5	1,1,2-Trichloroethane	1.0U	1.0	0.22
79-01-6	Trichloroethene	1.0U	1.0	0.24
75-69-4	Trichlorofluoromethane	1.0U	1.0	0.11
96-18-4	1,2,3-Trichloropropane	1.0U	1.0	0.27
95-63-6	1,2,4-Trimethylbenzene	1.0U	1.0	0.19
108-67-8	1,3,5-Trimethylbenzene	1.0U	1.0	0.20
108-05-4	Vinyl Acetate	10U	10	0.29
75-01-4	Vinyl Chloride	2.0U	2.0	0.14

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ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312307
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	C-9-FB	Sampled:	12/17/13 16:00
Lab Sample ID:	1312307-03	Sampled By:	Justin Cooper
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/27/13 13:00 By: BAG
Dilution Factor:	1	Analyzed:	12/27/13 20:11 By: BAG
QC Batch:	1313783	Analytical Batch:	3L30030

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL	MDL
179601-23-1	Xylene, Meta + Para	2.0U	2.0	0.21
95-47-6	Xylene, Ortho	1.0U	1.0	0.23
1330-20-7	Xylene (Total)	3.0U	3.0	0.44

Surrogates:
% Recovery
Control Limits
Dibromofluoromethane
100
85-118
1,2-Dichloroethane-d4
102
87-122
Toluene-d8
99
85-113
4-Bromofluorobenzene
100
82-110

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-9-FB**
 Lab Sample ID: **1312307-03**
 Matrix: Water

Work Order: **1312307**
 Description: Laboratory Services
 Sampled: 12/17/13 16:00
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	MDL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	0.50 J	1.0	0.25	mg/L	1	SM 4500-Cl E-2011	12/30/13 08:07	LMA	1313768
Carbon, Total Organic	0.13 J	0.50	0.13	mg/L	1	SM 5310 C-2011	12/26/13 22:52	KAR	1313744

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-10**
 Lab Sample ID: **1312307-04**
 Matrix: Water

Work Order: **1312307**
 Description: Laboratory Services
 Sampled: 12/17/13 15:45
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00

Dissolved Gases in Water by RSK-175 Headspace Analysis

Analyte	Analytical Result	RL	MDL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Ethane	1.6	1.0	0.24	ug/L	1	RSK-175	12/27/13 13:26	JMF	1313729
Methane	17000	200	58	ug/L	400	RSK-175	12/27/13 13:32	JMF	1313729
Ethylene	5.3	1.0	0.25	ug/L	1	RSK-175	12/27/13 13:26	JMF	1313729

ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312307
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	C-10	Sampled:	12/17/13 15:45
Lab Sample ID:	1312307-04	Sampled By:	Justin Cooper
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/27/13 13:00 By: BAG
Dilution Factor:	1	Analyzed:	12/27/13 20:38 By: BAG
QC Batch:	1313783	Analytical Batch:	3L30030

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL	MDL
67-64-1	Acetone	78	10	1.7
71-43-2	Benzene	1.0U	1.0	0.32
108-86-1	Bromobenzene	1.0U	1.0	0.11
74-97-5	Bromochloromethane	1.0U	1.0	0.30
75-27-4	Bromodichloromethane	1.0U	1.0	0.12
75-25-2	Bromoform	1.0U	1.0	0.24
74-83-9	Bromomethane	1.0U	1.0	0.23
104-51-8	n-Butylbenzene	1.0U	1.0	0.20
135-98-8	sec-Butylbenzene	1.0U	1.0	0.23
98-06-6	tert-Butylbenzene	1.0U	1.0	0.25
75-15-0	Carbon Disulfide	1.1J	5.0	0.28
56-23-5	Carbon Tetrachloride	1.0U	1.0	0.23
108-90-7	Chlorobenzene	1.0U	1.0	0.21
75-00-3	Chloroethane	1.0U	1.0	0.22
67-66-3	Chloroform	1.0U	1.0	0.26
74-87-3	Chloromethane	1.0U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0U	1.0	0.27
106-43-4	4-Chlorotoluene	1.0U	1.0	0.18
124-48-1	Dibromochloromethane	1.0U	1.0	0.14
106-93-4	1,2-Dibromoethane	5.0U	5.0	0.23
74-95-3	Dibromomethane	1.0U	1.0	0.15
95-50-1	1,2-Dichlorobenzene	1.0U	1.0	0.12
541-73-1	1,3-Dichlorobenzene	1.0U	1.0	0.17
106-46-7	1,4-Dichlorobenzene	1.0U	1.0	0.11
75-71-8	Dichlorodifluoromethane	10U	10	0.23
75-34-3	1,1-Dichloroethane	1.0U	1.0	0.28
107-06-2	1,2-Dichloroethane	1.0U	1.0	0.15
75-35-4	1,1-Dichloroethene	0.27J	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.98J	1.0	0.20

Continued on next page

ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312307
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	C-10	Sampled:	12/17/13 15:45
Lab Sample ID:	1312307-04	Sampled By:	Justin Cooper
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/27/13 13:00 By: BAG
Dilution Factor:	1	Analyzed:	12/27/13 20:38 By: BAG
QC Batch:	1313783	Analytical Batch:	3L30030

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL	MDL
156-60-5	trans-1,2-Dichloroethene	1.0U	1.0	0.22
540-59-0	1,2-Dichloroethene (Total)	0.98J	2.0	0.42
78-87-5	1,2-Dichloropropane	1.0U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0U	1.0	0.13
594-20-7	2,2-Dichloropropane	1.0U	1.0	0.30
563-58-6	1,1-Dichloropropene	1.0U	1.0	0.27
10061-01-5	cis-1,3-Dichloropropene	1.0U	1.0	0.28
10061-02-6	trans-1,3-Dichloropropene	1.0U	1.0	0.14
100-41-4	Ethylbenzene	1.0U	1.0	0.27
591-78-6	2-Hexanone	7.0J	10	1.5
98-82-8	Isopropylbenzene	1.0U	1.0	0.23
99-87-6	4-Isopropyltoluene	1.0U	1.0	0.30
1634-04-4	Methyl tert-Butyl Ether	5.0U	5.0	0.10
75-09-2	Methylene Chloride	5.0U	5.0	0.24
78-93-3	2-Butanone (MEK)	17	10	1.6
108-10-1	4-Methyl-2-pentanone (MIBK)	10U	10	1.4
103-65-1	n-Propylbenzene	1.0U	1.0	0.14
100-42-5	Styrene	1.0U	1.0	0.12
630-20-6	1,1,1,2-Tetrachloroethane	1.0U	1.0	0.18
79-34-5	1,1,2,2-Tetrachloroethane	1.0U	1.0	0.22
127-18-4	Tetrachloroethene	1.0U	1.0	0.16
108-88-3	Toluene	1.0U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0U	1.0	0.30
79-00-5	1,1,2-Trichloroethane	1.0U	1.0	0.22
79-01-6	Trichloroethene	1.0U	1.0	0.24
75-69-4	Trichlorofluoromethane	1.0U	1.0	0.11
96-18-4	1,2,3-Trichloropropane	1.0U	1.0	0.27
95-63-6	1,2,4-Trimethylbenzene	1.0U	1.0	0.19
108-67-8	1,3,5-Trimethylbenzene	1.0U	1.0	0.20
108-05-4	Vinyl Acetate	10U	10	0.29
75-01-4	Vinyl Chloride	0.69J	2.0	0.14

Continued on next page

ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312307
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	C-10	Sampled:	12/17/13 15:45
Lab Sample ID:	1312307-04	Sampled By:	Justin Cooper
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/27/13 13:00 By: BAG
Dilution Factor:	1	Analyzed:	12/27/13 20:38 By: BAG
QC Batch:	1313783	Analytical Batch:	3L30030

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL	MDL
179601-23-1	Xylene, Meta + Para	2.0U	2.0	0.21
95-47-6	Xylene, Ortho	1.0U	1.0	0.23
1330-20-7	Xylene (Total)	3.0U	3.0	0.44

Surrogates:
% Recovery
Control Limits
Dibromofluoromethane
98
85-118
1,2-Dichloroethane-d4
102
87-122
Toluene-d8
98
85-113
4-Bromofluorobenzene
97
82-110

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-10**
 Lab Sample ID: **1312307-04**
 Matrix: Water

Work Order: **1312307**
 Description: Laboratory Services
 Sampled: 12/17/13 15:45
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	MDL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	180	2.0	0.50	mg/L	2	SM 4500-Cl E-2011	12/30/13 08:39	LMA	1313768
Carbon, Total Organic	43	2.5	0.64	mg/L	5	SM 5310 C-2011	12/26/13 23:04	KAR	1313744

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-10-EB**
 Lab Sample ID: **1312307-05**
 Matrix: Water

Work Order: **1312307**
 Description: Laboratory Services
 Sampled: 12/17/13 15:30
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00

Dissolved Gases in Water by RSK-175 Headspace Analysis

Analyte	Analytical Result	RL	MDL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Ethane	1.0 U	1.0	0.24	ug/L	1	RSK-175	12/27/13 13:44	JMF	1313729
Methane	0.50 U	0.50	0.14	ug/L	1	RSK-175	12/27/13 13:44	JMF	1313729
Ethylene	1.0 U	1.0	0.25	ug/L	1	RSK-175	12/27/13 13:44	JMF	1313729

ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312307
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	C-10-EB	Sampled:	12/17/13 15:30
Lab Sample ID:	1312307-05	Sampled By:	Justin Cooper
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/27/13 13:00 By: BAG
Dilution Factor:	1	Analyzed:	12/27/13 21:05 By: BAG
QC Batch:	1313783	Analytical Batch:	3L30030

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL	MDL
*67-64-1	Acetone	7.9J	10	1.7
71-43-2	Benzene	1.0U	1.0	0.32
108-86-1	Bromobenzene	1.0U	1.0	0.11
74-97-5	Bromochloromethane	1.0U	1.0	0.30
75-27-4	Bromodichloromethane	1.0U	1.0	0.12
75-25-2	Bromoform	1.0U	1.0	0.24
74-83-9	Bromomethane	1.0U	1.0	0.23
104-51-8	n-Butylbenzene	1.0U	1.0	0.20
135-98-8	sec-Butylbenzene	1.0U	1.0	0.23
98-06-6	tert-Butylbenzene	1.0U	1.0	0.25
75-15-0	Carbon Disulfide	5.0U	5.0	0.28
56-23-5	Carbon Tetrachloride	1.0U	1.0	0.23
108-90-7	Chlorobenzene	1.0U	1.0	0.21
75-00-3	Chloroethane	1.0U	1.0	0.22
67-66-3	Chloroform	1.0U	1.0	0.26
74-87-3	Chloromethane	1.0U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0U	1.0	0.27
106-43-4	4-Chlorotoluene	1.0U	1.0	0.18
124-48-1	Dibromochloromethane	1.0U	1.0	0.14
106-93-4	1,2-Dibromoethane	5.0U	5.0	0.23
74-95-3	Dibromomethane	1.0U	1.0	0.15
95-50-1	1,2-Dichlorobenzene	1.0U	1.0	0.12
541-73-1	1,3-Dichlorobenzene	1.0U	1.0	0.17
106-46-7	1,4-Dichlorobenzene	1.0U	1.0	0.11
75-71-8	Dichlorodifluoromethane	10U	10	0.23
75-34-3	1,1-Dichloroethane	1.0U	1.0	0.28
107-06-2	1,2-Dichloroethane	1.0U	1.0	0.15
75-35-4	1,1-Dichloroethene	1.0U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	1.0U	1.0	0.20

Continued on next page

*See Statement of Data Qualifications

ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312307
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	C-10-EB	Sampled:	12/17/13 15:30
Lab Sample ID:	1312307-05	Sampled By:	Justin Cooper
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/27/13 13:00 By: BAG
Dilution Factor:	1	Analyzed:	12/27/13 21:05 By: BAG
QC Batch:	1313783	Analytical Batch:	3L30030

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL	MDL
156-60-5	trans-1,2-Dichloroethene	1.0U	1.0	0.22
540-59-0	1,2-Dichloroethene (Total)	2.0U	2.0	0.42
78-87-5	1,2-Dichloropropane	1.0U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0U	1.0	0.13
594-20-7	2,2-Dichloropropane	1.0U	1.0	0.30
563-58-6	1,1-Dichloropropene	1.0U	1.0	0.27
10061-01-5	cis-1,3-Dichloropropene	1.0U	1.0	0.28
10061-02-6	trans-1,3-Dichloropropene	1.0U	1.0	0.14
100-41-4	Ethylbenzene	1.0U	1.0	0.27
591-78-6	2-Hexanone	10U	10	1.5
98-82-8	Isopropylbenzene	1.0U	1.0	0.23
99-87-6	4-Isopropyltoluene	1.0U	1.0	0.30
1634-04-4	Methyl tert-Butyl Ether	5.0U	5.0	0.10
75-09-2	Methylene Chloride	5.0U	5.0	0.24
78-93-3	2-Butanone (MEK)	10U	10	1.6
108-10-1	4-Methyl-2-pentanone (MIBK)	10U	10	1.4
103-65-1	n-Propylbenzene	1.0U	1.0	0.14
100-42-5	Styrene	1.0U	1.0	0.12
630-20-6	1,1,1,2-Tetrachloroethane	1.0U	1.0	0.18
79-34-5	1,1,2,2-Tetrachloroethane	1.0U	1.0	0.22
127-18-4	Tetrachloroethene	1.0U	1.0	0.16
108-88-3	Toluene	1.0U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0U	1.0	0.30
79-00-5	1,1,2-Trichloroethane	1.0U	1.0	0.22
79-01-6	Trichloroethene	1.0U	1.0	0.24
75-69-4	Trichlorofluoromethane	1.0U	1.0	0.11
96-18-4	1,2,3-Trichloropropane	1.0U	1.0	0.27
95-63-6	1,2,4-Trimethylbenzene	1.0U	1.0	0.19
108-67-8	1,3,5-Trimethylbenzene	1.0U	1.0	0.20
108-05-4	Vinyl Acetate	10U	10	0.29
75-01-4	Vinyl Chloride	2.0U	2.0	0.14

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ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312307
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	C-10-EB	Sampled:	12/17/13 15:30
Lab Sample ID:	1312307-05	Sampled By:	Justin Cooper
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/27/13 13:00 By: BAG
Dilution Factor:	1	Analyzed:	12/27/13 21:05 By: BAG
QC Batch:	1313783	Analytical Batch:	3L30030

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL	MDL
179601-23-1	Xylene, Meta + Para	2.0U	2.0	0.21
95-47-6	Xylene, Ortho	1.0U	1.0	0.23
1330-20-7	Xylene (Total)	3.0U	3.0	0.44

Surrogates:
% Recovery
Control Limits
Dibromofluoromethane
100
85-118
1,2-Dichloroethane-d4
102
87-122
Toluene-d8
100
85-113
4-Bromofluorobenzene
101
82-110

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-10-EB**
 Lab Sample ID: **1312307-05**
 Matrix: Water

Work Order: **1312307**
 Description: Laboratory Services
 Sampled: 12/17/13 15:30
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	MDL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	0.63 J	1.0	0.25	mg/L	1	SM 4500-Cl E-2011	12/30/13 08:07	LMA	1313768
Carbon, Total Organic	0.30 J	0.50	0.13	mg/L	1	SM 5310 C-2011	12/26/13 23:44	KAR	1313744

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-11**
 Lab Sample ID: **1312307-06**
 Matrix: Water

Work Order: **1312307**
 Description: Laboratory Services
 Sampled: 12/17/13 17:05
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00

Dissolved Gases in Water by RSK-175 Headspace Analysis

Analyte	Analytical Result	RL	MDL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Ethane	0.28 J	1.0	0.24	ug/L	1	RSK-175	12/27/13 13:48	JMF	1313729
Methane	36	0.50	0.14	ug/L	1	RSK-175	12/27/13 13:48	JMF	1313729
*Ethylene	0.39 J	1.0	0.25	ug/L	1	RSK-175	12/27/13 13:48	JMF	1313729

*See Statement of Data Qualifications

ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312307
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	C-11	Sampled:	12/17/13 17:05
Lab Sample ID:	1312307-06	Sampled By:	Justin Cooper
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/27/13 13:00 By: BAG
Dilution Factor:	1	Analyzed:	12/27/13 21:32 By: BAG
QC Batch:	1313783	Analytical Batch:	3L30030

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL	MDL
67-64-1	Acetone	10U	10	1.7
71-43-2	Benzene	1.0U	1.0	0.32
108-86-1	Bromobenzene	1.0U	1.0	0.11
74-97-5	Bromochloromethane	1.0U	1.0	0.30
75-27-4	Bromodichloromethane	1.0U	1.0	0.12
75-25-2	Bromoform	1.0U	1.0	0.24
74-83-9	Bromomethane	1.0U	1.0	0.23
104-51-8	n-Butylbenzene	1.0U	1.0	0.20
135-98-8	sec-Butylbenzene	1.0U	1.0	0.23
98-06-6	tert-Butylbenzene	1.0U	1.0	0.25
75-15-0	Carbon Disulfide	5.0U	5.0	0.28
56-23-5	Carbon Tetrachloride	1.0U	1.0	0.23
108-90-7	Chlorobenzene	1.0U	1.0	0.21
75-00-3	Chloroethane	1.0U	1.0	0.22
67-66-3	Chloroform	1.0U	1.0	0.26
74-87-3	Chloromethane	1.0U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0U	1.0	0.27
106-43-4	4-Chlorotoluene	1.0U	1.0	0.18
124-48-1	Dibromochloromethane	1.0U	1.0	0.14
106-93-4	1,2-Dibromoethane	5.0U	5.0	0.23
74-95-3	Dibromomethane	1.0U	1.0	0.15
95-50-1	1,2-Dichlorobenzene	1.0U	1.0	0.12
541-73-1	1,3-Dichlorobenzene	1.0U	1.0	0.17
106-46-7	1,4-Dichlorobenzene	1.0U	1.0	0.11
75-71-8	Dichlorodifluoromethane	10U	10	0.23
75-34-3	1,1-Dichloroethane	1.0U	1.0	0.28
107-06-2	1,2-Dichloroethane	1.0U	1.0	0.15
75-35-4	1,1-Dichloroethene	12	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	0.72J	1.0	0.20

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ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312307
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	C-11	Sampled:	12/17/13 17:05
Lab Sample ID:	1312307-06	Sampled By:	Justin Cooper
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/27/13 13:00 By: BAG
Dilution Factor:	1	Analyzed:	12/27/13 21:32 By: BAG
QC Batch:	1313783	Analytical Batch:	3L30030

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL	MDL
156-60-5	trans-1,2-Dichloroethene	1.0U	1.0	0.22
540-59-0	1,2-Dichloroethene (Total)	0.72J	2.0	0.42
78-87-5	1,2-Dichloropropane	1.0U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0U	1.0	0.13
594-20-7	2,2-Dichloropropane	1.0U	1.0	0.30
563-58-6	1,1-Dichloropropene	1.0U	1.0	0.27
10061-01-5	cis-1,3-Dichloropropene	1.0U	1.0	0.28
10061-02-6	trans-1,3-Dichloropropene	1.0U	1.0	0.14
100-41-4	Ethylbenzene	1.0U	1.0	0.27
591-78-6	2-Hexanone	10U	10	1.5
98-82-8	Isopropylbenzene	1.0U	1.0	0.23
99-87-6	4-Isopropyltoluene	1.0U	1.0	0.30
1634-04-4	Methyl tert-Butyl Ether	5.0U	5.0	0.10
75-09-2	Methylene Chloride	5.0U	5.0	0.24
78-93-3	2-Butanone (MEK)	10U	10	1.6
108-10-1	4-Methyl-2-pentanone (MIBK)	10U	10	1.4
103-65-1	n-Propylbenzene	1.0U	1.0	0.14
100-42-5	Styrene	1.0U	1.0	0.12
630-20-6	1,1,1,2-Tetrachloroethane	1.0U	1.0	0.18
79-34-5	1,1,2,2-Tetrachloroethane	1.0U	1.0	0.22
127-18-4	Tetrachloroethene	0.27J	1.0	0.16
108-88-3	Toluene	1.0U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0U	1.0	0.30
79-00-5	1,1,2-Trichloroethane	1.0U	1.0	0.22
79-01-6	Trichloroethene	63	1.0	0.24
75-69-4	Trichlorofluoromethane	1.0U	1.0	0.11
96-18-4	1,2,3-Trichloropropane	1.0U	1.0	0.27
95-63-6	1,2,4-Trimethylbenzene	1.0U	1.0	0.19
108-67-8	1,3,5-Trimethylbenzene	1.0U	1.0	0.20
108-05-4	Vinyl Acetate	10U	10	0.29
75-01-4	Vinyl Chloride	2.0U	2.0	0.14

Continued on next page

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-11**
 Lab Sample ID: **1312307-06**
 Matrix: Water
 Unit: ug/L
 Dilution Factor: 1
 QC Batch: 1313783

Work Order: **1312307**
 Description: Laboratory Services
 Sampled: 12/17/13 17:05
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00
 Prepared: 12/27/13 13:00 By: BAG
 Analyzed: 12/27/13 21:32 By: BAG
 Analytical Batch: 3L30030

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL	MDL
179601-23-1	Xylene, Meta + Para	2.0U	2.0	0.21
95-47-6	Xylene, Ortho	1.0U	1.0	0.23
1330-20-7	Xylene (Total)	3.0U	3.0	0.44

Surrogates:
% Recovery
Control Limits
Dibromofluoromethane
99
85-118
1,2-Dichloroethane-d4
102
87-122
Toluene-d8
100
85-113
4-Bromofluorobenzene
101
82-110

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-11**
 Lab Sample ID: **1312307-06**
 Matrix: Water

Work Order: **1312307**
 Description: Laboratory Services
 Sampled: 12/17/13 17:05
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	MDL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	12	1.0	0.25	mg/L	1	SM 4500-Cl E-2011	12/30/13 08:07	LMA	1313768
Carbon, Total Organic	1.5	0.50	0.13	mg/L	1	SM 5310 C-2011	12/26/13 23:55	KAR	1313744

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-12**
 Lab Sample ID: **1312307-07**
 Matrix: Water

Work Order: **1312307**
 Description: Laboratory Services
 Sampled: 12/17/13 11:45
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00

Dissolved Gases in Water by RSK-175 Headspace Analysis

Analyte	Analytical Result	RL	MDL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Ethane	1.0 U	1.0	0.24	ug/L	1	RSK-175	12/27/13 13:52	JMF	1313729
Methane	0.27 J	0.50	0.14	ug/L	1	RSK-175	12/27/13 13:52	JMF	1313729
Ethylene	1.0 U	1.0	0.25	ug/L	1	RSK-175	12/27/13 13:52	JMF	1313729

ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312307
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	C-12	Sampled:	12/17/13 11:45
Lab Sample ID:	1312307-07	Sampled By:	Justin Cooper
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/27/13 13:00 By: BAG
Dilution Factor:	1	Analyzed:	12/27/13 21:58 By: BAG
QC Batch:	1313783	Analytical Batch:	3L30030

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL	MDL
67-64-1	Acetone	10U	10	1.7
71-43-2	Benzene	1.0U	1.0	0.32
108-86-1	Bromobenzene	1.0U	1.0	0.11
74-97-5	Bromochloromethane	1.0U	1.0	0.30
75-27-4	Bromodichloromethane	1.0U	1.0	0.12
75-25-2	Bromoform	1.0U	1.0	0.24
74-83-9	Bromomethane	1.0U	1.0	0.23
104-51-8	n-Butylbenzene	1.0U	1.0	0.20
135-98-8	sec-Butylbenzene	1.0U	1.0	0.23
98-06-6	tert-Butylbenzene	1.0U	1.0	0.25
75-15-0	Carbon Disulfide	5.0U	5.0	0.28
56-23-5	Carbon Tetrachloride	1.0U	1.0	0.23
108-90-7	Chlorobenzene	1.0U	1.0	0.21
75-00-3	Chloroethane	1.0U	1.0	0.22
67-66-3	Chloroform	1.0U	1.0	0.26
74-87-3	Chloromethane	1.0U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0U	1.0	0.27
106-43-4	4-Chlorotoluene	1.0U	1.0	0.18
124-48-1	Dibromochloromethane	1.0U	1.0	0.14
106-93-4	1,2-Dibromoethane	5.0U	5.0	0.23
74-95-3	Dibromomethane	1.0U	1.0	0.15
95-50-1	1,2-Dichlorobenzene	1.0U	1.0	0.12
541-73-1	1,3-Dichlorobenzene	1.0U	1.0	0.17
106-46-7	1,4-Dichlorobenzene	1.0U	1.0	0.11
75-71-8	Dichlorodifluoromethane	10U	10	0.23
75-34-3	1,1-Dichloroethane	23	1.0	0.28
107-06-2	1,2-Dichloroethane	1.0U	1.0	0.15
75-35-4	1,1-Dichloroethene	5.0	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	6.3	1.0	0.20

Continued on next page

ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312307
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	C-12	Sampled:	12/17/13 11:45
Lab Sample ID:	1312307-07	Sampled By:	Justin Cooper
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/27/13 13:00 By: BAG
Dilution Factor:	1	Analyzed:	12/27/13 21:58 By: BAG
QC Batch:	1313783	Analytical Batch:	3L30030

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL	MDL
156-60-5	trans-1,2-Dichloroethene	1.0U	1.0	0.22
540-59-0	1,2-Dichloroethene (Total)	6.3	2.0	0.42
78-87-5	1,2-Dichloropropane	1.0U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0U	1.0	0.13
594-20-7	2,2-Dichloropropane	1.0U	1.0	0.30
563-58-6	1,1-Dichloropropene	1.0U	1.0	0.27
10061-01-5	cis-1,3-Dichloropropene	1.0U	1.0	0.28
10061-02-6	trans-1,3-Dichloropropene	1.0U	1.0	0.14
100-41-4	Ethylbenzene	1.0U	1.0	0.27
591-78-6	2-Hexanone	10U	10	1.5
98-82-8	Isopropylbenzene	1.0U	1.0	0.23
99-87-6	4-Isopropyltoluene	1.0U	1.0	0.30
1634-04-4	Methyl tert-Butyl Ether	5.0U	5.0	0.10
75-09-2	Methylene Chloride	5.0U	5.0	0.24
78-93-3	2-Butanone (MEK)	10U	10	1.6
108-10-1	4-Methyl-2-pentanone (MIBK)	10U	10	1.4
103-65-1	n-Propylbenzene	1.0U	1.0	0.14
100-42-5	Styrene	1.0U	1.0	0.12
630-20-6	1,1,1,2-Tetrachloroethane	1.0U	1.0	0.18
79-34-5	1,1,2,2-Tetrachloroethane	1.0U	1.0	0.22
127-18-4	Tetrachloroethene	1.8	1.0	0.16
108-88-3	Toluene	1.0U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0U	1.0	0.30
79-00-5	1,1,2-Trichloroethane	1.0U	1.0	0.22
79-01-6	Trichloroethene	44	1.0	0.24
75-69-4	Trichlorofluoromethane	1.0U	1.0	0.11
96-18-4	1,2,3-Trichloropropane	1.0U	1.0	0.27
95-63-6	1,2,4-Trimethylbenzene	1.0U	1.0	0.19
108-67-8	1,3,5-Trimethylbenzene	1.0U	1.0	0.20
108-05-4	Vinyl Acetate	10U	10	0.29
75-01-4	Vinyl Chloride	2.0U	2.0	0.14

Continued on next page

ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312307
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	C-12	Sampled:	12/17/13 11:45
Lab Sample ID:	1312307-07	Sampled By:	Justin Cooper
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/27/13 13:00 By: BAG
Dilution Factor:	1	Analyzed:	12/27/13 21:58 By: BAG
QC Batch:	1313783	Analytical Batch:	3L30030

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL	MDL
179601-23-1	Xylene, Meta + Para	2.0U	2.0	0.21
95-47-6	Xylene, Ortho	1.0U	1.0	0.23
1330-20-7	Xylene (Total)	3.0U	3.0	0.44

Surrogates:
% Recovery
Control Limits
Dibromofluoromethane
99
85-118
1,2-Dichloroethane-d4
103
87-122
Toluene-d8
100
85-113
4-Bromofluorobenzene
101
82-110

ANALYTICAL REPORT

Client: **Tetra Tech GEO - VA**
 Project: GE Caribe - Vieques, PR
 Client Sample ID: **C-12**
 Lab Sample ID: **1312307-07**
 Matrix: Water

Work Order: **1312307**
 Description: Laboratory Services
 Sampled: 12/17/13 11:45
 Sampled By: Justin Cooper
 Received: 12/19/13 8:00

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

Analyte	Analytical Result	RL	MDL	Unit	Dilution Factor	Method	Date Time Analyzed	By	QC Batch
Chloride	340	5.0	1.2	mg/L	5	SM 4500-Cl E-2011	12/30/13 08:39	LMA	1313768
Carbon, Total Organic	3.1	0.50	0.13	mg/L	1	SM 5310 C-2011	12/27/13 00:06	KAR	1313744

ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312307
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	Trip Blank TM3229	Sampled:	12/17/13 0:00
Lab Sample ID:	1312307-08	Sampled By:	TriMatrix
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/27/13 13:00 By: BAG
Dilution Factor:	1	Analyzed:	12/27/13 15:44 By: BAG
QC Batch:	1313783	Analytical Batch:	3L30030

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL	MDL
*67-64-1	Acetone	6.4J	10	1.7
71-43-2	Benzene	1.0U	1.0	0.32
108-86-1	Bromobenzene	1.0U	1.0	0.11
74-97-5	Bromochloromethane	1.0U	1.0	0.30
75-27-4	Bromodichloromethane	1.0U	1.0	0.12
75-25-2	Bromoform	1.0U	1.0	0.24
74-83-9	Bromomethane	1.0U	1.0	0.23
104-51-8	n-Butylbenzene	1.0U	1.0	0.20
135-98-8	sec-Butylbenzene	1.0U	1.0	0.23
98-06-6	tert-Butylbenzene	1.0U	1.0	0.25
75-15-0	Carbon Disulfide	5.0U	5.0	0.28
56-23-5	Carbon Tetrachloride	1.0U	1.0	0.23
108-90-7	Chlorobenzene	1.0U	1.0	0.21
75-00-3	Chloroethane	1.0U	1.0	0.22
67-66-3	Chloroform	1.0U	1.0	0.26
74-87-3	Chloromethane	1.0U	1.0	0.20
95-49-8	2-Chlorotoluene	1.0U	1.0	0.27
106-43-4	4-Chlorotoluene	1.0U	1.0	0.18
124-48-1	Dibromochloromethane	1.0U	1.0	0.14
106-93-4	1,2-Dibromoethane	5.0U	5.0	0.23
74-95-3	Dibromomethane	1.0U	1.0	0.15
95-50-1	1,2-Dichlorobenzene	1.0U	1.0	0.12
541-73-1	1,3-Dichlorobenzene	1.0U	1.0	0.17
106-46-7	1,4-Dichlorobenzene	1.0U	1.0	0.11
75-71-8	Dichlorodifluoromethane	10U	10	0.23
75-34-3	1,1-Dichloroethane	1.0U	1.0	0.28
107-06-2	1,2-Dichloroethane	1.0U	1.0	0.15
75-35-4	1,1-Dichloroethene	1.0U	1.0	0.21
156-59-2	cis-1,2-Dichloroethene	1.0U	1.0	0.20
156-60-5	trans-1,2-Dichloroethene	1.0U	1.0	0.22
540-59-0	1,2-Dichloroethene (Total)	2.0U	2.0	0.42

Continued on next page

*See Statement of Data Qualifications

ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312307
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	Trip Blank TM3229	Sampled:	12/17/13 0:00
Lab Sample ID:	1312307-08	Sampled By:	TriMatrix
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/27/13 13:00 By: BAG
Dilution Factor:	1	Analyzed:	12/27/13 15:44 By: BAG
QC Batch:	1313783	Analytical Batch:	3L30030

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL	MDL
78-87-5	1,2-Dichloropropane	1.0U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0U	1.0	0.13
594-20-7	2,2-Dichloropropane	1.0U	1.0	0.30
563-58-6	1,1-Dichloropropene	1.0U	1.0	0.27
10061-01-5	cis-1,3-Dichloropropene	1.0U	1.0	0.28
10061-02-6	trans-1,3-Dichloropropene	1.0U	1.0	0.14
100-41-4	Ethylbenzene	1.0U	1.0	0.27
591-78-6	2-Hexanone	10U	10	1.5
98-82-8	Isopropylbenzene	1.0U	1.0	0.23
99-87-6	4-Isopropyltoluene	1.0U	1.0	0.30
1634-04-4	Methyl tert-Butyl Ether	5.0U	5.0	0.10
75-09-2	Methylene Chloride	5.0U	5.0	0.24
78-93-3	2-Butanone (MEK)	10U	10	1.6
108-10-1	4-Methyl-2-pentanone (MIBK)	10U	10	1.4
103-65-1	n-Propylbenzene	1.0U	1.0	0.14
100-42-5	Styrene	1.0U	1.0	0.12
630-20-6	1,1,1,2-Tetrachloroethane	1.0U	1.0	0.18
79-34-5	1,1,2,2-Tetrachloroethane	1.0U	1.0	0.22
127-18-4	Tetrachloroethene	1.0U	1.0	0.16
108-88-3	Toluene	1.0U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	1.0U	1.0	0.30
79-00-5	1,1,2-Trichloroethane	1.0U	1.0	0.22
79-01-6	Trichloroethene	1.0U	1.0	0.24
75-69-4	Trichlorofluoromethane	1.0U	1.0	0.11
96-18-4	1,2,3-Trichloropropane	1.0U	1.0	0.27
95-63-6	1,2,4-Trimethylbenzene	1.0U	1.0	0.19
108-67-8	1,3,5-Trimethylbenzene	1.0U	1.0	0.20
108-05-4	Vinyl Acetate	10U	10	0.29
75-01-4	Vinyl Chloride	2.0U	2.0	0.14
179601-23-1	Xylene, Meta + Para	2.0U	2.0	0.21
95-47-6	Xylene, Ortho	1.0U	1.0	0.23

Continued on next page

ANALYTICAL REPORT

Client:	Tetra Tech GEO - VA	Work Order:	1312307
Project:	GE Caribe - Vieques, PR	Description:	Laboratory Services
Client Sample ID:	Trip Blank TM3229	Sampled:	12/17/13 0:00
Lab Sample ID:	1312307-08	Sampled By:	TriMatrix
Matrix:	Water	Received:	12/19/13 8:00
Unit:	ug/L	Prepared:	12/27/13 13:00 By: BAG
Dilution Factor:	1	Analyzed:	12/27/13 15:44 By: BAG
QC Batch:	1313783	Analytical Batch:	3L30030

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL	MDL
1330-20-7	Xylene (Total)	3.0U	3.0	0.44
Surrogates:				
		% Recovery		Control Limits
	<i>Dibromofluoromethane</i>	<i>100</i>		<i>85-118</i>
	<i>1,2-Dichloroethane-d4</i>	<i>102</i>		<i>87-122</i>
	<i>Toluene-d8</i>	<i>100</i>		<i>85-113</i>
	<i>4-Bromofluorobenzene</i>	<i>100</i>		<i>82-110</i>

QUALITY CONTROL REPORT

Dissolved Gases in Water by RSK-175 Headspace Analysis

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL	MDL
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QC Batch: 1313729 Method-Specific Extraction/RSK-175

Method Blank

Analyzed: 12/27/2013 By: JMF

Unit: ug/L

Analytical Batch: 4A03013

Ethane			1.0 U					1.0	0.24
Methane			0.50 U			--		0.50	0.14
Ethylene			0.41 J			--		1.0	0.25

Laboratory Control Sample

Analyzed: 12/27/2013 By: JMF

Unit: ug/L

Analytical Batch: 4A03013

Ethane	58.7	50.4	86	67-122	--			1.0	0.24
Methane	35.8	31.1	87	70-116	--			0.50	0.14
Ethylene	58.1	49.4	85	67-121	--			1.0	0.25

QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL	MDL
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QC Batch: 1313783 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank

Unit: ug/L

Analyzed:

12/27/2013

By: BAG

Analytical Batch:

3L30030

Acetone			4.0 J			--		10	1.7
Benzene			1.0 U					1.0	0.32
Bromobenzene			1.0 U					1.0	0.11
Bromochloromethane			1.0 U					1.0	0.30
Bromodichloromethane			1.0 U					1.0	0.12
Bromoform			1.0 U					1.0	0.24
Bromomethane			1.0 U					1.0	0.23
n-Butylbenzene			1.0 U			--		1.0	0.20
sec-Butylbenzene			1.0 U			--		1.0	0.23
tert-Butylbenzene			1.0 U					1.0	0.25
Carbon Disulfide			5.0 U			--		5.0	0.28
Carbon Tetrachloride			1.0 U					1.0	0.23
Chlorobenzene			1.0 U					1.0	0.21
Chloroethane			1.0 U					1.0	0.22
Chloroform			1.0 U					1.0	0.26
Chloromethane			1.0 U					1.0	0.20
2-Chlorotoluene			1.0 U					1.0	0.27
4-Chlorotoluene			1.0 U					1.0	0.18
Dibromochloromethane			1.0 U					1.0	0.14
1,2-Dibromoethane			5.0 U					5.0	0.23
Dibromomethane			1.0 U					1.0	0.15
1,2-Dichlorobenzene			1.0 U					1.0	0.12
1,3-Dichlorobenzene			1.0 U			--		1.0	0.17
1,4-Dichlorobenzene			1.0 U					1.0	0.11
Dichlorodifluoromethane			10 U					10	0.23
1,1-Dichloroethane			1.0 U					1.0	0.28
1,2-Dichloroethane			1.0 U					1.0	0.15
1,1-Dichloroethene			1.0 U					1.0	0.21
cis-1,2-Dichloroethene			1.0 U					1.0	0.20
trans-1,2-Dichloroethene			1.0 U					1.0	0.22
1,2-Dichloroethene (Total)			2.0 U					2.0	0.42
1,2-Dichloropropane			1.0 U					1.0	0.18
1,3-Dichloropropane			1.0 U					1.0	0.13
2,2-Dichloropropane			1.0 U					1.0	0.30
1,1-Dichloropropene			1.0 U					1.0	0.27
cis-1,3-Dichloropropene			1.0 U					1.0	0.28

Continued on next page

QUALITY CONTROL REPORT
Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL	MDL
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QC Batch: 1313783 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank (Continued)

Analyzed: 12/27/2013 By: BAG

Unit: ug/L

Analytical Batch: 3L30030

trans-1,3-Dichloropropene			1.0 U					1.0	0.14
Ethylbenzene			1.0 U					1.0	0.27
2-Hexanone			10 U					10	1.5
Isopropylbenzene			1.0 U					1.0	0.23
4-Isopropyltoluene			1.0 U			--		1.0	0.30
Methyl tert-Butyl Ether			5.0 U					5.0	0.10
Methylene Chloride			5.0 U					5.0	0.24
2-Butanone (MEK)			10 U					10	1.6
4-Methyl-2-pentanone (MIBK)			10 U					10	1.4
n-Propylbenzene			1.0 U					1.0	0.14
Styrene			1.0 U					1.0	0.12
1,1,1,2-Tetrachloroethane			1.0 U					1.0	0.18
1,1,2,2-Tetrachloroethane			1.0 U					1.0	0.22
Tetrachloroethene			1.0 U					1.0	0.16
Toluene			1.0 U					1.0	0.28
1,1,1-Trichloroethane			1.0 U					1.0	0.30
1,1,2-Trichloroethane			1.0 U					1.0	0.22
Trichloroethene			1.0 U					1.0	0.24
Trichlorofluoromethane			1.0 U					1.0	0.11
1,2,3-Trichloropropane			1.0 U					1.0	0.27
1,2,4-Trimethylbenzene			1.0 U					1.0	0.19
1,3,5-Trimethylbenzene			1.0 U					1.0	0.20
Vinyl Acetate			10 U					10	0.29
Vinyl Chloride			2.0 U					2.0	0.14
Xylene, Meta + Para			2.0 U					2.0	0.21
Xylene, Ortho			1.0 U					1.0	0.23
Xylene (Total)			3.0 U					3.0	0.44

Surrogates:

Dibromofluoromethane	98	85-118
1,2-Dichloroethane-d4	101	87-122
Toluene-d8	100	85-113
4-Bromofluorobenzene	100	82-110

Laboratory Control Sample

Analyzed: 12/27/2013 By: BAG

Unit: ug/L

Analytical Batch: 3L30030

Acetone	40.0	49.0	123	53-138	--			10	1.7
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Continued on next page

QUALITY CONTROL REPORT
Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL	MDL
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QC Batch: 1313783 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Laboratory Control Sample (Continued)

Analyzed: 12/27/2013 By: BAG

Unit: ug/L

Analytical Batch: 3L30030

Benzene	40.0	39.6	99	84-119	--	1.0	0.32
Bromobenzene	40.0	38.8	97	79-127	--	1.0	0.11
Bromochloromethane	40.0	38.2	96	77-126	--	1.0	0.30
Bromodichloromethane	40.0	39.8	99	82-124	--	1.0	0.12
Bromoform	40.0	35.6	89	65-123	--	1.0	0.24
Bromomethane	40.0	42.2	105	55-142	--	1.0	0.23
n-Butylbenzene	40.0	41.7	104	79-123	--	1.0	0.20
sec-Butylbenzene	40.0	40.2	101	81-122	--	1.0	0.23
tert-Butylbenzene	40.0	40.0	100	80-122	--	1.0	0.25
Carbon Disulfide	40.0	42.4	106	70-131	--	5.0	0.28
Carbon Tetrachloride	40.0	41.4	103	79-127	--	1.0	0.23
Chlorobenzene	40.0	39.3	98	84-118	--	1.0	0.21
Chloroethane	40.0	40.6	102	76-124	--	1.0	0.22
Chloroform	40.0	39.1	98	82-119	--	1.0	0.26
Chloromethane	40.0	41.2	103	73-125	--	1.0	0.20
2-Chlorotoluene	40.0	39.8	100	82-123	--	1.0	0.27
4-Chlorotoluene	40.0	39.4	99	82-125	--	1.0	0.18
Dibromochloromethane	40.0	36.6	91	74-121	--	1.0	0.14
1,2-Dibromoethane	40.0	41.7	104	84-125	--	5.0	0.23
Dibromomethane	40.0	39.9	100	83-120	--	1.0	0.15
1,2-Dichlorobenzene	40.0	39.7	99	81-124	--	1.0	0.12
1,3-Dichlorobenzene	40.0	39.8	99	81-124	--	1.0	0.17
1,4-Dichlorobenzene	40.0	39.2	98	79-122	--	1.0	0.11
Dichlorodifluoromethane	40.0	44.6	112	68-130	--	10	0.23
1,1-Dichloroethane	40.0	40.7	102	80-118	--	1.0	0.28
1,2-Dichloroethane	40.0	40.0	100	81-122	--	1.0	0.15
1,1-Dichloroethene	40.0	40.8	102	77-123	--	1.0	0.21
cis-1,2-Dichloroethene	40.0	40.0	100	84-119	--	1.0	0.20
trans-1,2-Dichloroethene	40.0	39.9	100	76-126	--	1.0	0.22
1,2-Dichloroethene (Total)	80.0	79.9	100	82-119	--	2.0	0.42
1,2-Dichloropropane	40.0	39.2	98	82-122	--	1.0	0.18
1,3-Dichloropropane	40.0	40.0	100	84-125	--	1.0	0.13
2,2-Dichloropropane	40.0	42.0	105	55-141	--	1.0	0.30
1,1-Dichloropropene	40.0	40.5	101	84-122	--	1.0	0.27
cis-1,3-Dichloropropene	40.0	37.4	93	77-120	--	1.0	0.28
trans-1,3-Dichloropropene	40.0	36.6	92	73-116	--	1.0	0.14

Continued on next page

QUALITY CONTROL REPORT
Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL	MDL
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QC Batch: 1313783 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Laboratory Control Sample (Continued)

Unit: ug/L	Analyzed:	12/27/2013	By: BAG
	Analytical Batch:	3L30030	

Ethylbenzene	40.0	39.7	99	87-119	--	1.0	0.27
2-Hexanone	40.0	47.3	118	55-141	--	10	1.5
Isopropylbenzene	40.0	39.5	99	76-126	--	1.0	0.23
4-Isopropyltoluene	40.0	40.5	101	80-126	--	1.0	0.30
Methyl tert-Butyl Ether	40.0	42.9	107	72-128	--	5.0	0.10
Methylene Chloride	40.0	38.6	96	75-129	--	5.0	0.24
2-Butanone (MEK)	40.0	45.6	114	52-142	--	10	1.6
4-Methyl-2-pentanone (MIBK)	40.0	44.3	111	60-142	--	10	1.4
n-Propylbenzene	40.0	40.4	101	82-123	--	1.0	0.14
Styrene	40.0	40.0	100	84-120	--	1.0	0.12
1,1,1,2-Tetrachloroethane	40.0	41.0	102	84-122	--	1.0	0.18
1,1,1,2,2-Pentachloroethane	40.0	42.0	105	70-137	--	1.0	0.22
Tetrachloroethene	40.0	40.3	101	81-117	--	1.0	0.16
Toluene	40.0	39.5	99	85-118	--	1.0	0.28
1,1,1-Trichloroethane	40.0	41.0	103	81-122	--	1.0	0.30
1,1,2-Trichloroethane	40.0	40.4	101	83-121	--	1.0	0.22
Trichloroethene	40.0	39.2	98	82-119	--	1.0	0.24
Trichlorofluoromethane	40.0	41.8	105	76-128	--	1.0	0.11
1,2,3-Trichloropropane	40.0	42.7	107	78-134	--	1.0	0.27
1,2,4-Trimethylbenzene	40.0	40.0	100	83-124	--	1.0	0.19
1,3,5-Trimethylbenzene	40.0	39.8	99	82-125	--	1.0	0.20
Vinyl Acetate	40.0	41.5	104	45-155	--	10	0.29
Vinyl Chloride	40.0	41.8	105	77-123	--	2.0	0.14
Xylene, Meta + Para	80.0	79.4	99	86-119	--	2.0	0.21
Xylene, Ortho	40.0	40.0	100	86-120	--	1.0	0.23
Xylene (Total)	120	119	99	86-119	--	3.0	0.44

Surrogates:

Dibromofluoromethane	99	85-118
1,2-Dichloroethane-d4	100	87-122
Toluene-d8	100	85-113
4-Bromofluorobenzene	100	82-110

QC Batch: 1313852 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank

Unit: ug/L	Analyzed:	12/30/2013	By: BAG
	Analytical Batch:	3L31024	

Acetone	2.0 J	--	10	1.7
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QUALITY CONTROL REPORT
Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL	MDL
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QC Batch: 1313852 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank (Continued)

Analyzed: 12/30/2013 By: BAG

Unit: ug/L

Analytical Batch: 3L31024

Benzene	1.0 U			1.0	0.32
Bromobenzene	1.0 U			1.0	0.11
Bromochloromethane	1.0 U			1.0	0.30
Bromodichloromethane	1.0 U			1.0	0.12
Bromoform	1.0 U			1.0	0.24
Bromomethane	1.0 U			1.0	0.23
n-Butylbenzene	1.0 U	--		1.0	0.20
sec-Butylbenzene	1.0 U	--		1.0	0.23
tert-Butylbenzene	1.0 U			1.0	0.25
Carbon Disulfide	5.0 U	--		5.0	0.28
Carbon Tetrachloride	1.0 U			1.0	0.23
Chlorobenzene	1.0 U			1.0	0.21
Chloroethane	1.0 U			1.0	0.22
Chloroform	1.0 U			1.0	0.26
Chloromethane	1.0 U			1.0	0.20
2-Chlorotoluene	1.0 U			1.0	0.27
4-Chlorotoluene	1.0 U			1.0	0.18
Dibromochloromethane	1.0 U			1.0	0.14
1,2-Dibromoethane	5.0 U			5.0	0.23
Dibromomethane	1.0 U			1.0	0.15
1,2-Dichlorobenzene	1.0 U			1.0	0.12
1,3-Dichlorobenzene	1.0 U	--		1.0	0.17
1,4-Dichlorobenzene	1.0 U	--		1.0	0.11
Dichlorodifluoromethane	10 U			10	0.23
1,1-Dichloroethane	1.0 U			1.0	0.28
1,2-Dichloroethane	1.0 U			1.0	0.15
1,1-Dichloroethene	1.0 U			1.0	0.21
cis-1,2-Dichloroethene	1.0 U			1.0	0.20
trans-1,2-Dichloroethene	1.0 U			1.0	0.22
1,2-Dichloroethene (Total)	2.0 U			2.0	0.42
1,2-Dichloropropane	1.0 U			1.0	0.18
1,3-Dichloropropane	1.0 U			1.0	0.13
2,2-Dichloropropane	1.0 U			1.0	0.30
1,1-Dichloropropene	1.0 U			1.0	0.27
cis-1,3-Dichloropropene	1.0 U			1.0	0.28
trans-1,3-Dichloropropene	1.0 U			1.0	0.14

Continued on next page

QUALITY CONTROL REPORT
Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL	MDL
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QC Batch: 1313852 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank (Continued)

Analyzed: 12/30/2013 By: BAG

Unit: ug/L

Analytical Batch: 3L31024

Ethylbenzene			1.0 U					1.0	0.27
2-Hexanone			10 U					10	1.5
Isopropylbenzene			1.0 U					1.0	0.23
4-Isopropyltoluene			1.0 U			--		1.0	0.30
Methyl tert-Butyl Ether			5.0 U					5.0	0.10
Methylene Chloride			5.0 U					5.0	0.24
2-Butanone (MEK)			10 U					10	1.6
4-Methyl-2-pentanone (MIBK)			10 U					10	1.4
n-Propylbenzene			1.0 U					1.0	0.14
Styrene			1.0 U					1.0	0.12
1,1,1,2-Tetrachloroethane			1.0 U					1.0	0.18
1,1,2,2-Tetrachloroethane			1.0 U					1.0	0.22
Tetrachloroethene			1.0 U					1.0	0.16
Toluene			1.0 U					1.0	0.28
1,1,1-Trichloroethane			1.0 U					1.0	0.30
1,1,2-Trichloroethane			1.0 U					1.0	0.22
Trichloroethene			1.0 U					1.0	0.24
Trichlorofluoromethane			1.0 U					1.0	0.11
1,2,3-Trichloropropane			1.0 U					1.0	0.27
1,2,4-Trimethylbenzene			1.0 U					1.0	0.19
1,3,5-Trimethylbenzene			1.0 U					1.0	0.20
Vinyl Acetate			10 U					10	0.29
Vinyl Chloride			2.0 U					2.0	0.14
Xylene, Meta + Para			2.0 U					2.0	0.21
Xylene, Ortho			1.0 U					1.0	0.23
Xylene (Total)			3.0 U					3.0	0.44

Surrogates:

Dibromofluoromethane	96	85-118
1,2-Dichloroethane-d4	91	87-122
Toluene-d8	97	85-113
4-Bromofluorobenzene	89	82-110

Laboratory Control Sample

Analyzed: 12/30/2013 By: BAG

Unit: ug/L

Analytical Batch: 3L31024

Acetone	40.0	50.9	127	53-138	--			10	1.7
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QUALITY CONTROL REPORT
Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL	MDL
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QC Batch: 1313852 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Laboratory Control Sample (Continued)

Unit: ug/L

 Analyzed: 12/30/2013 By: BAG
 Analytical Batch: 3L31024

Benzene	40.0	40.6	102	84-119	--	1.0	0.32
Bromobenzene	40.0	36.6	92	79-127	--	1.0	0.11
Bromochloromethane	40.0	37.9	95	77-126	--	1.0	0.30
Bromodichloromethane	40.0	44.1	110	82-124	--	1.0	0.12
Bromoform	40.0	42.6	107	65-123	--	1.0	0.24
Bromomethane	40.0	35.8	90	55-142	--	1.0	0.23
n-Butylbenzene	40.0	39.4	99	79-123	--	1.0	0.20
sec-Butylbenzene	40.0	39.4	99	81-122	--	1.0	0.23
tert-Butylbenzene	40.0	39.2	98	80-122	--	1.0	0.25
Carbon Disulfide	40.0	54.8	137	70-131	--	5.0	0.28
Carbon Tetrachloride	40.0	46.8	117	79-127	--	1.0	0.23
Chlorobenzene	40.0	39.9	100	84-118	--	1.0	0.21
Chloroethane	40.0	47.0	118	76-124	--	1.0	0.22
Chloroform	40.0	41.3	103	82-119	--	1.0	0.26
Chloromethane	40.0	45.2	113	73-125	--	1.0	0.20
2-Chlorotoluene	40.0	40.0	100	82-123	--	1.0	0.27
4-Chlorotoluene	40.0	38.0	95	82-125	--	1.0	0.18
Dibromochloromethane	40.0	40.9	102	74-121	--	1.0	0.14
1,2-Dibromoethane	40.0	41.7	104	84-125	--	5.0	0.23
Dibromomethane	40.0	41.4	104	83-120	--	1.0	0.15
1,2-Dichlorobenzene	40.0	39.7	99	81-124	--	1.0	0.12
1,3-Dichlorobenzene	40.0	39.8	99	81-124	--	1.0	0.17
1,4-Dichlorobenzene	40.0	39.3	98	79-122	--	1.0	0.11
Dichlorodifluoromethane	40.0	44.1	110	68-130	--	10	0.23
1,1-Dichloroethane	40.0	41.4	104	80-118	--	1.0	0.28
1,2-Dichloroethane	40.0	41.0	103	81-122	--	1.0	0.15
1,1-Dichloroethene	40.0	46.1	115	77-123	--	1.0	0.21
cis-1,2-Dichloroethene	40.0	42.0	105	84-119	--	1.0	0.20
trans-1,2-Dichloroethene	40.0	42.6	106	76-126	--	1.0	0.22
1,2-Dichloroethene (Total)	80.0	84.6	106	82-119	--	2.0	0.42
1,2-Dichloropropane	40.0	39.3	98	82-122	--	1.0	0.18
1,3-Dichloropropane	40.0	39.3	98	84-125	--	1.0	0.13
2,2-Dichloropropane	40.0	44.5	111	55-141	--	1.0	0.30
1,1-Dichloropropene	40.0	41.9	105	84-122	--	1.0	0.27
cis-1,3-Dichloropropene	40.0	40.0	100	77-120	--	1.0	0.28
trans-1,3-Dichloropropene	40.0	40.6	101	73-116	--	1.0	0.14

Continued on next page

QUALITY CONTROL REPORT
Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL	MDL
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QC Batch: 1313852 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Laboratory Control Sample (Continued)

Unit: ug/L	Analyzed:	12/30/2013	By: BAG
	Analytical Batch:	3L31024	

Ethylbenzene	40.0	39.5	99	87-119	--	1.0	0.27
2-Hexanone	40.0	42.6	106	55-141	--	10	1.5
Isopropylbenzene	40.0	39.2	98	76-126	--	1.0	0.23
4-Isopropyltoluene	40.0	39.5	99	80-126	--	1.0	0.30
Methyl tert-Butyl Ether	40.0	44.0	110	72-128	--	5.0	0.10
Methylene Chloride	40.0	43.2	108	75-129	--	5.0	0.24
2-Butanone (MEK)	40.0	43.5	109	52-142	--	10	1.6
4-Methyl-2-pentanone (MIBK)	40.0	41.5	104	60-142	--	10	1.4
n-Propylbenzene	40.0	39.8	99	82-123	--	1.0	0.14
Styrene	40.0	40.3	101	84-120	--	1.0	0.12
1,1,1,2-Tetrachloroethane	40.0	44.7	112	84-122	--	1.0	0.18
1,1,2,2-Tetrachloroethane	40.0	38.6	97	70-137	--	1.0	0.22
Tetrachloroethene	40.0	41.8	104	81-117	--	1.0	0.16
Toluene	40.0	41.4	103	85-118	--	1.0	0.28
1,1,1-Trichloroethane	40.0	44.7	112	81-122	--	1.0	0.30
1,1,2-Trichloroethane	40.0	41.6	104	83-121	--	1.0	0.22
Trichloroethene	40.0	42.6	107	82-119	--	1.0	0.24
Trichlorofluoromethane	40.0	46.1	115	76-128	--	1.0	0.11
1,2,3-Trichloropropane	40.0	40.5	101	78-134	--	1.0	0.27
1,2,4-Trimethylbenzene	40.0	39.0	98	83-124	--	1.0	0.19
1,3,5-Trimethylbenzene	40.0	38.8	97	82-125	--	1.0	0.20
Vinyl Acetate	40.0	34.5	86	45-155	--	10	0.29
Vinyl Chloride	40.0	45.9	115	77-123	--	2.0	0.14
Xylene, Meta + Para	80.0	80.4	100	86-119	--	2.0	0.21
Xylene, Ortho	40.0	40.5	101	86-120	--	1.0	0.23
Xylene (Total)	120	121	101	86-119	--	3.0	0.44

Surrogates:

<i>Dibromofluoromethane</i>	<i>103</i>	<i>85-118</i>
<i>1,2-Dichloroethane-d4</i>	<i>97</i>	<i>87-122</i>
<i>Toluene-d8</i>	<i>101</i>	<i>85-113</i>
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>82-110</i>

QUALITY CONTROL REPORT

Physical/Chemical Parameters by EPA/APHA/ASTM Methods

QC Type	Sample Conc.	Spike Qty.	Result	Unit	Spike % Rec.	Control Limits	RPD	RPD Limits	RL	MDL
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Analyte: Carbon, Total Organic/SM 5310 C-2011

QC Batch: 1313744 (Method Specific Preparation)						Analyzed: 12/26/2013		By: KAR		
Method Blank			0.50 U	mg/L					0.50	0.13
Laboratory Control Sample		2.00	2.07	mg/L	104	84-118			0.50	0.13

Analyte: Chloride/SM 4500-Cl E-2011

QC Batch: 1313768 (General Inorganic Prep)						Analyzed: 12/30/2013		By: LMA		
Method Blank			0.39 J	mg/L					1.0	0.25
Laboratory Control Sample		50.0	51.1	mg/L	102	90-106			1.0	0.25



146871

Pg. ____ of ____

C H_2SO_4 , pH <

E NaOH pH?

G MeOH

—

1

2/13 08

PINK COPY - FIELD

5560 Corporate Exchange Court SE ♦ Grand Rapids, MI 49512 ♦ 616.975.4500 ♦ Fax 616.942.7463 ♦ www.trimatrixlabs.com

SAMPLE RECEIVING / LOG-IN CHECKLIST

 TRIMATRIX LABORATORIES		Client: <u>Tetra Tech</u>		Work Order #: <u>1312307</u>	
		Receipt Record Page/Line #: <u>19-1</u>		New / Add To Project Chemist: _____ Sample #: _____	
Recorded by (initials/date): <u>LA 12/19/13</u>		☒ Cooler ☐ Box ☐ Other: _____	Qty Received: <u>2</u>	☒ IR Gun (#202) ☐ Thermometer Used ☐ Digital Thermometer (#54) ☐ Other (# _____)	☐ See Additional Cooler Information Form

Cooler #	Time	Cooler #	Time	Cooler #	Time	Cooler #	Time
3229	0837	1455	0840				
Custody Seals: ☐ None ☒ Present / Intact ☐ Present / Not Intact		Custody Seals: ☐ None ☒ Present / Intact ☐ Present / Not Intact		Custody Seals: ☐ None ☐ Present / Intact ☐ Present / Not Intact		Custody Seals: ☐ None ☐ Present / Intact ☐ Present / Not Intact	
Coolant Location: Dispersed / <u>Top</u> / Middle / Bottom		Coolant Location: Dispersed / <u>Top</u> / Middle / Bottom		Coolant Location: Dispersed / Top / Middle / Bottom		Coolant Location: Dispersed / Top / Middle / Bottom	
Coolant/Temperature Taken Via:		Coolant/Temperature Taken Via:		Coolant/Temperature Taken Via:		Coolant/Temperature Taken Via:	
☐ Loose Ice / Avg 2-3 containers ☒ Bagged Ice / Avg 2-3 containers ☐ Blue Ice / Avg 2-3 containers ☐ None / Avg 2-3 containers		☐ Loose Ice / Avg 2-3 containers ☒ Bagged Ice / Avg 2-3 containers ☐ Blue Ice / Avg 2-3 containers ☐ None / Avg 2-3 containers		☐ Loose Ice / Avg 2-3 containers ☐ Bagged Ice / Avg 2-3 containers ☐ Blue Ice / Avg 2-3 containers ☐ None / Avg 2-3 containers		☐ Loose Ice / Avg 2-3 containers ☐ Bagged Ice / Avg 2-3 containers ☐ Blue Ice / Avg 2-3 containers ☐ None / Avg 2-3 containers	
Alternate Temperature Taken Via:		Alternate Temperature Taken Via:		Alternate Temperature Taken Via:		Alternate Temperature Taken Via:	
☒ Temperature Blank (TB) ☐ 1 Container		☒ Temperature Blank (TB) ☐ 1 Container		☐ Temperature Blank (TB) ☐ 1 Container		☐ Temperature Blank (TB) ☐ 1 Container	
Recorded °C	Correction Factor °C	Actual °C	Recorded °C	Correction Factor °C	Actual °C	Recorded °C	Correction Factor °C
Temp Blank: _____	_____	2.4	Temp Blank: _____	_____	4.1	Temp Blank: _____	_____
TB location: <u>Representative</u> / Not Representative		TB location: <u>Representative</u> / Not Representative		TB location: Representative / Not Representative		TB location: Representative / Not Representative	
1	2.6	2.6	1	2.7	2.7	1	
2	1.9	1.9	2	3.8	3.8	2	
3	2.3	2.3	3	3.1	3.1	3	
Average °C		Average °C		Average °C		Average °C	
☒ Cooler ID on COC? <u>2.3</u>		☒ Cooler ID on COC? <u>3.2</u>		☐ Cooler ID on COC?		☐ Cooler ID on COC?	
☒ VOC Trip Blank received?		☒ VOC Trip Blank received?		☐ VOC Trip Blank received?		☐ VOC Trip Blank received?	

If any shaded areas checked, complete Sample Receiving Non-Conformance and/or Inventory Form

Paperwork Received Yes No ☒ Chain of Custody record(s)? If No, Initiated By _____ ☒ Received for Lab Signed/Date/Time? ☒ Shipping document? ☐ Other: _____ COC Information ☒ TriMatrix COC ☐ Other: <u>146870, 146871</u> COC ID Numbers: _____	Check Sample Preservation N/A Yes No ☒ Average sample temperature ≤6° C? ☒ Was thermal preservation required? If "No", Project Chemist Approval Initials: _____ If "Yes" Completed Non Con Cooler - Cont Inventory Form? ☒ Completed Sample Preservation Verification Form? ☒ Samples chemically preserved correctly? If "No", added orange tag? ☒ Received pre-preserved VOC soils? ☐ MeOH ☐ Na ₂ SO ₄
Check COC for Accuracy Yes No ☒ Analysis Requested? ☒ Sample ID matches COC? ☒ Sample Date and Time matches COC? ☒ Container type completed on COC? ☒ All container types indicated are received?	Check for Short Hold-Time Prep/Analyses ☐ Bacteriological ☐ Air Bags ☐ EnCores / Methanol Pre-Preserved ☐ Formaldehyde/Aldehyde ☒ Green-tagged containers ☐ Yellow/White-tagged 1L ambers (SV Prep-Lab)

Sample Condition Summary N/A Yes No ☒ Broken containers/lids? ☒ Missing or incomplete labels? ☒ Illegible information on labels? ☒ Low volume received? ☒ Inappropriate or non-TriMatrix containers received? ☒ VOC vials / TOX containers have headspace? ☒ Extra sample locations / containers not listed on COC?	Notes ☐ Trip Blank received ☐ Trip Blank not listed on COC Cooler Received (Date/Time) Paperwork Delivered (Date/Time) ≤1 Hour Goal Met? <u>12/19/13 0800</u> <u>12/19/13 0922</u> Yes ☒ No
--	---


SAMPLE PRESERVATION VERIFICATION FORM

page ____ of ____

Client <i>Tetra Tech</i>	Work Order # <i>1312307</i>
Receipt Log # <i>19-1</i>	Completed By (initials/date) <i>SL 12/19/13</i>
Project Chemist	

COC ID # <i>146870</i>				Adjusted by: _____ Date: _____				DO NOT ADJUST pH FOR THESE CONTAINER TYPES			
Container Type	5 / 23	4	13	3	6	15					
Tag Color	Lt. Blue	Blue	Brown	Green	Red	Red Stripe					
Preservative	NaOH	H ₂ SO ₄	H ₂ SO ₄	None	HNO ₃	HNO ₃					
Expected pH	>12	<2	<2	6-8	<2	<2					
COC Line #1				✓							
COC Line #2				✓							
COC Line #3				✓							
COC Line #4				✓	✓						
COC Line #5				✓							
COC Line #6				✓							
COC Line #7				✓	✓						
COC Line #8											
COC Line #9											
COC Line #10											

Comments

Ph Strip Lot # ☒ HC378115 ☐

Aqueous Samples: For each sample and container type, check the box if pH is acceptable. If pH is not acceptable for any sample container, record pH in box, and note on Sample Receiving Checklist and on Sample Receiving Non-Conformance Form. If approved by Project Chemist, add acid or base to the sample to achieve the correct pH. Add up to, but do not exceed 2x the volume initially added at container prep (see table below for initial volumes used). Add orange pH tag to sample container and record information requested. Record adjusted pH on this form. Do not adjust pH for container types 3, 6, and 15.

COC ID # <i>146871</i>				Adjusted by: _____ Date: _____				DO NOT ADJUST pH FOR THESE CONTAINER TYPES			
Container Type	5 / 23	4	13	3	6	15					
Tag Color	Lt. Blue	Blue	Brown	Green	Red	Red Stripe					
Preservative	NaOH	H ₂ SO ₄	H ₂ SO ₄	None	HNO ₃	HNO ₃					
Expected pH	>12	<2	<2	6-8	<2	<2					
COC Line #1				✓							
COC Line #2				✓							
COC Line #3				✓							
COC Line #4				11							
COC Line #5				✓							
COC Line #6				✓							
COC Line #7				✓							
COC Line #8											
COC Line #9											
COC Line #10											

Comments

Container Size (mL)	Original Vol. of Preservative (mL)
Container Type 5	NaOH
500	2.5
1000	5.0
Container Type 4	H ₂ SO ₄
125	0.5
250	1.0
500	2.0
1000	4.0
Container Type 13	H ₂ SO ₄
500	2.5

APPENDIX D

GROUNDWATER SAMPLING LOG

SITE NAME: <u>GE VIEQUES</u>		SITE LOCATION: <u>VIEQUES, PR</u>	
WELL NO: <u>C-1</u>	SAMPLE ID: <u>C-1</u>	DATE: <u>12/17/13</u>	

PURGING DATA

WELL DIAMETER (in): <u>2"</u>		TOTAL WELL DEPTH (ft):		STATIC DEPTH TO WATER (ft): <u>15.27</u>		WELL CAPACITY (gal/ft):					
1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY =											
= (<u>15.27 - 15.43</u>) X <u>300</u> =											
PURGE METHOD: <u>LOW FLOW</u>		PURGE INITIATED AT: <u>855</u>		PURGE ENDED AT:		TOTAL VOL. PURGED (gal):					
TIME	VOLUME PURGED (gal)	CUMUL. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (°C)	COND. (µmhos)	O.R.P. (mV)	DISSOL. OXYGEN (mg/L)	TURBIDITY (NTUs)	COMMENTS (COLOR, ODOR)
855			300	15.43	6.39	26.71	0.643	42	3.66	21.9	
900			300	15.40	7.01	27.25	0.576	-121	1.39	0.0	
905			300	15.40	7.06	27.49	0.571	-121	1.21	0.0	
910			300	15.42	7.09	27.68	0.576	-124	1.02	0.0	
915			300	15.42	7.12	27.96	0.571	-121	0.89	0.0	
920			300	15.42	7.12	27.76	0.569	-120	0.86	0.0	
925			300	15.42	7.13	27.90	0.567	-123	0.77	0.0	
930	<u>2.0</u>	<u>2.0</u>	300	15.42	7.13	28.27	0.564	-125	0.81	0.0	
WELL CAPACITY (Gallons per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>JUSTIN COOPER</u>			SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>			
SAMPLING METHOD(S): <u>LOW FLOW GRAB</u>			SAMPLING INITIATED AT: <u>935</u>		SAMPLING ENDED AT:	
FIELD DECONTAMINATION: Y ☒ N		FIELD-FILTERED: Y ☒ N		DUPLICATE: Y ☒ N		
SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION			
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD
3	AG	40	H ₂ SO ₄	—	—	TOC
3	CG	↓	HCl	—	—	VOCs
3	CG	↓	HCl	—	—	DISSOLVED GASES
1	PE	<u>250/500</u>	—	—	—	CI-

REMARKS:

UG3860X HORIBA

Office Location: _____

GROUNDWATER SAMPLING LOG

SITE NAME: GE VIEQUES		SITE LOCATION: VIEQUES, PR	
WELL NO: C-2	SAMPLE ID: C-2	DATE: 12/17/13	

PURGING DATA

WELL DIAMETER (in): 2"		TOTAL WELL DEPTH (ft):		STATIC DEPTH TO WATER (ft): 18.31		WELL CAPACITY (gal/ft):					
$1 \text{ WELL VOLUME (gal)} = (\text{TOTAL WELL DEPTH} - \text{DEPTH TO WATER}) \times \text{WELL CAPACITY} =$ $= (\quad) \times =$											
PURGE METHOD: Low Flow		PURGE INITIATED AT: 9:15		PURGE ENDED AT:		TOTAL VOL. PURGED (gal): 2					
TIME	VOLUME PURGED (gal)	CUMUL. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (°C)	COND. (µmhos)	O.R.P. (mV)	DISSOL. OXYGEN (mg/L)	TURBIDITY (NTUs)	CCOMMENTS (COLOR, ODOR)
9:15			300	18.42	6.21	27.12	0.555	161	4.62	9.7	
9:20			300	18.47	6.81	27.16	0.631	151	3.75	366	
9:25			300	18.47	7.11	27.55	0.617	148	3.06	288	
9:30			300	18.47	7.23	27.80	0.605	146	2.57	191	
9:35			300	18.47	7.28	27.93	0.588	145	2.22	118	
9:40			300	18.47	7.30	28.04	0.560	145	2.01	83.3	
9:45			300	18.47	7.31	28.13	0.547	144	1.85	59.0	
9:50			300	18.47	7.31	28.22	0.531	143	1.76	35.4	
9:55			300	18.47	7.32	28.35	0.512	143	1.67	18.8	
10:00		2.5	300	18.47	7.32	28.42	0.508	142	2.10	15.5	
WELL CAPACITY (Gallons per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88											

SAMPLING DATA

SAMPLING DATA						
SAMPLED BY (PRINT) / AFFILIATION			SAMPLER(S) SIGNATURE(S)			
SAMPLING METHOD(S)			SAMPLING INITIATED AT:		SAMPLING ENDED AT:	
FIELD DECONTAMINATION:			FIELD-FILTERED:		DUPLICATE:	
SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	
3	AG	40	H ₂ SO ₄	—	—	TOC
3	CG	↓	HCl	—	—	VOCs
3	CG	↓	HCl	—	—	DISSOLVED GASES
1	PE	250/500	—	—	—	Cl ⁻
REMARKS:						
59613 HORIBA						

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; PE = POLYETHYLENE; O = OTHER (SPECIFY)

Office Location: _____

GROUNDWATER SAMPLING LOG

SITE NAME: GE VIEQUES		SITE LOCATION: VIEQUES, PR	
WELL NO: C-3	SAMPLE ID: C-3	DATE: 12/17/13	

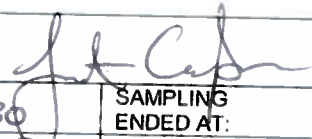
PURGING DATA

WELL DIAMETER (in): 2"		TOTAL WELL DEPTH (ft): _____		STATIC DEPTH TO WATER (ft): 19.15		WELL CAPACITY (gal/ft): _____	
$1 \text{ WELL VOLUME (gal)} = (\text{TOTAL WELL DEPTH} - \text{DEPTH TO WATER}) \times \text{WELL CAPACITY} =$ $= (\quad - \quad) \times \quad =$							
PURGE METHOD: LOW FLOW - MONSOON		PURGE INITIATED AT: 955		PURGE ENDED AT: _____		TOTAL VOL. PURGED (gal): _____	

TIME	VOLUME PURGED (gal)	CUMUL. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (°C)	COND. (µmhos)	O.R.P. (mV)	DISSOL. OXYGEN (mg/L)	TURBIDITY (NTUs)	COMMENTS (COLOR, ODOR)
955			150 mL	20.21	7.20	27.16	0.539	-76	2.21	144	
1000				20.23	6.94	27.22	0.50	-50	1.12	489	
1005				20.23	6.91	27.00	1.93	7	0.72	441	
1010				20.23	6.92	27.05	1.95	19	0.68	293	
1015				20.23	6.91	27.06	1.97	35	0.67	276	
1020				20.23	6.91	27.15	1.97	38	0.68	227	
1023				20.54	6.90	27.03	1.94	49	0.73	629	HORIBA moved!
1026				20.54	6.92	27.06	1.94	48	0.72	538	TURBIDITY increased
1029		1.5	✓	20.54	6.92	27.07	1.94	48	0.71	521	

WELL CAPACITY (Gallons per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JUSTIN COOPER				SAMPLER(S) SIGNATURE(S): 	
SAMPLING METHOD(S): LOW FLOW GRAB				SAMPLING INITIATED AT: 1030	
FIELD DECONTAMINATION: Y ☒ N ☐		FIELD-FILTERED: Y ☒ N ☐		DUPLICATE: Y ☐ N ☒	

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	
3	AG	40	H2SO4	—	—	TOC VOCs Dissolved GASES Cl ⁻
3	CG	↓	HCl	—	—	
3	CG	↓	HCl	—	—	
1	PE	500	—	—	—	

REMARKS: **U63860X HORIBA**

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; PE = POLYETHYLENE; O = OTHER (SPECIFY)

GROUNDWATER SAMPLING LOG

SITE NAME: <u>GE VIEQUES</u>		SITE LOCATION: <u>VIEQUES, PR</u>	
WELL NO: <u>C-4</u>	SAMPLE ID: <u>C-4</u>	DATE: <u>12/17/13</u>	

PURGING DATA

WELL DIAMETER (in): <u>2"</u>		TOTAL WELL DEPTH (ft): _____		STATIC DEPTH TO WATER (ft): <u>21.55</u>		WELL CAPACITY (gal/ft): _____	
1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = _____							
= (_____) X _____ = _____							
PURGE METHOD: <u>LOW FLOW WATER SPOUT 2</u>		PURGE INITIATED AT: <u>1055</u>		PURGE ENDED AT: _____		TOTAL VOL. PURGED (gal): _____	

TIME	VOLUME PURGED (gal)	CUMUL. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (°C)	COND. (µmhos)	O.R.P. (mV)	DISSOL. OXYGEN (mg/L)	TURBIDITY (NTUs)	CCOMMENTS (COLOR, ODOR)
<u>1055</u>			<u>150</u>	<u>21.97</u>	<u>7.06</u>	<u>28.59</u>	<u>1.65</u>	<u>201</u>	<u>3.36</u>	<u>84.1</u>	
<u>1040³⁰</u>			<u>150</u>	<u>21.70</u>	<u>6.97</u>	<u>28.92</u>	<u>1.91</u>	<u>190</u>	<u>1.95</u>	<u>23.8</u>	
<u>1100</u>			<u>150</u>	<u>21.70</u>	<u>6.97</u>	<u>28.87</u>	<u>1.92</u>	<u>186</u>	<u>1.86</u>	<u>17.6</u>	
<u>1105</u>			<u>150</u>	<u>21.70</u>	<u>6.97</u>	<u>28.89</u>	<u>1.93</u>	<u>182</u>	<u>1.80</u>	<u>11.2</u>	
<u>1110</u>			<u>150</u>	<u>21.69</u>	<u>6.97</u>	<u>29.08</u>	<u>1.93</u>	<u>178</u>	<u>1.67</u>	<u>10.9</u>	
<u>1115</u>			<u>150</u>	<u>21.70</u>	<u>6.98</u>	<u>29.32</u>	<u>1.93</u>	<u>175</u>	<u>2.05</u>	<u>9.3</u>	
<u>1120</u>			<u>150</u>	<u>21.70</u>	<u>6.99</u>	<u>29.59</u>	<u>1.93</u>	<u>171</u>	<u>2.30</u>	<u>7.3</u>	
<u>1125</u>			<u>150</u>	<u>21.70</u>	<u>7.00</u>	<u>29.81</u>	<u>1.93</u>	<u>168</u>	<u>2.20</u>	<u>5.8</u>	
<u>1130</u>			<u>150</u>	<u>21.70</u>	<u>7.01</u>	<u>30.18</u>	<u>1.92</u>	<u>164</u>	<u>2.12</u>	<u>3.9</u>	
<u>1135</u>			<u>150</u>	<u>21.70</u>	<u>7.01</u>	<u>30.49</u>	<u>1.91</u>	<u>161</u>	<u>2.03</u>	<u>1.9</u>	
<u>1140</u>		<u>1.5</u>	<u>150</u>	<u>21.70</u>	<u>7.01</u>	<u>30.49</u>	<u>1.91</u>	<u>161</u>	<u>2.03</u>	<u>1.9</u>	

WELL CAPACITY (Gallons per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>JUSTIN COOPER</u>			SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>		
SAMPLING METHOD(S): <u>LOW FLOW GRAB</u>			SAMPLING INITIATED AT: <u>1145</u>		SAMPLING ENDED AT: _____
FIELD DECONTAMINATION: <u>(Y)</u> N		FIELD-FILTERED: Y <u>(N)</u>		DUPLICATE: <u>(Y)</u> N	

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	
<u>3</u>	<u>AG</u>	<u>40</u>	<u>H2SO4</u>	<u>—</u>	<u>—</u>	<u>TOC</u>
<u>3</u>	<u>CG</u>	<u>↓</u>	<u>HCl</u>	<u>—</u>	<u>—</u>	<u>VOCs</u>
<u>3</u>	<u>CG</u>	<u>↓</u>	<u>HCl</u>	<u>—</u>	<u>—</u>	<u>DISSOLVED CASES</u>
<u>1</u>	<u>PE</u>	<u>500</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>Cl⁻</u>
<u>1</u>	<u>PE</u>	<u>250</u>	<u>HNO3</u>	<u>—</u>	<u>—</u>	<u>Ca, Na, Mg</u>

REMARKS:

DUPLICATE @ 1145 = C-12
S9613 HORIBA

GROUNDWATER SAMPLING LOG

SITE NAME: <u>GE VIEQUES</u>		SITE LOCATION: <u>VIEQUES, PR</u>	
WELL NO: <u>C-5</u>	SAMPLE ID: <u>C-5</u>	DATE: <u>12/17/13</u>	

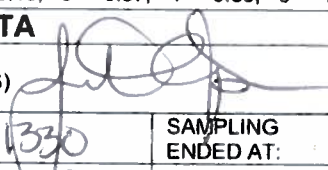
PURGING DATA

WELL DIAMETER (in): <u>2"</u>		TOTAL WELL DEPTH (ft): _____		STATIC DEPTH TO WATER (ft): <u>32.81</u>		WELL CAPACITY (gal/ft): _____	
1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = = (_____) X _____ = _____							
PURGE METHOD: <u>LOW FLOW MANUAL</u>				PURGE INITIATED AT: <u>1255</u>		PURGE ENDED AT: _____	
						TOTAL VOL. PURGED (gal): _____	

TIME	VOLUME PURGED (gal)	CUMUL. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (°C)	COND. (µmhos)	O.R.P. (mV)	DISSOL. OXYGEN (mg/L)	TURBIDITY (NTUs)	COMMENTS (COLOR, ODOR)
<u>1255</u>			<u>200</u>	<u>34.55</u>	<u>6.84</u>	<u>28.41</u>	<u>2.12</u>	<u>62</u>	<u>1.75</u>	<u>156</u>	
<u>1300</u>			<u>1</u>	<u>34.64</u>	<u>6.80</u>	<u>27.58</u>	<u>2.24</u>	<u>62</u>	<u>0.73</u>	<u>341</u>	
<u>1305</u>				<u>34.64</u>	<u>6.80</u>	<u>27.60</u>	<u>2.24</u>	<u>60</u>	<u>0.63</u>	<u>268</u>	
<u>1310</u>				<u>34.64</u>	<u>6.79</u>	<u>27.65</u>	<u>2.24</u>	<u>58</u>	<u>0.59</u>	<u>213</u>	
<u>1315</u>				<u>34.65</u>	<u>6.79</u>	<u>27.80</u>	<u>2.24</u>	<u>59</u>	<u>0.55</u>	<u>200</u>	
<u>1320</u>				<u>34.65</u>	<u>6.79</u>	<u>27.73</u>	<u>2.24</u>	<u>60</u>	<u>0.53</u>	<u>206</u>	
<u>1325</u>		<u>2.0 g</u>	<u>↓</u>	<u>34.65</u>	<u>6.78</u>	<u>27.65</u>	<u>2.24</u>	<u>60</u>	<u>0.55</u>	<u>200</u>	

WELL CAPACITY (Gallons per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)/ AFFILIATION: <u>JUSTIN COOPER</u>			SAMPLER(S) SIGNATURE(S): 		
SAMPLING METHOD(S): <u>LOW FLOW GRAB</u>			SAMPLING INITIATED AT: <u>1330</u>		SAMPLING ENDED AT: _____
FIELD DECONTAMINATION: Y ☒ N ☐		FIELD-FILTERED: Y ☒ N ☐		DUPLICATE: Y ☐ N ☒	

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	
<u>3</u>	<u>AG</u>	<u>40 mL</u>	<u>H2SO4</u>	<u>—</u>	<u>—</u>	<u>TOC</u>
<u>3</u>	<u>CG</u>	<u>↓</u>	<u>HCl</u>	<u>—</u>	<u>—</u>	<u>VOCs</u>
<u>3</u>	<u>CG</u>	<u>↓</u>	<u>HCl</u>	<u>—</u>	<u>—</u>	<u>DISSOLVED CASES</u>
<u>1</u>	<u>PE</u>	<u>500 mL</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>CI-</u>

REMARKS:

UG3860X HORIBA

Office Location: _____

GROUNDWATER SAMPLING LOG

SITE NAME: <u>GE VIEQUES</u>	SITE LOCATION: <u>VIEQUES, PR</u>
WELL NO: <u>C-6</u>	SAMPLE ID: <u>C-6</u> DATE: <u>12/17/13</u>

PURGING DATA

WELL DIAMETER (in): <u>2"</u>	TOTAL WELL DEPTH (ft): _____	STATIC DEPTH TO WATER (ft): <u>37.31</u>	WELL CAPACITY (gal/ft): _____
1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = _____			
= (_____) X _____ = _____			
PURGE METHOD: <u>LOW FLOW</u> <u>MONSOON</u>		PURGE INITIATED AT: <u>1350</u>	
		PURGE ENDED AT: _____	
		TOTAL VOL. PURGED (gal): _____	

TIME	VOLUME PURGED (gal)	CUMUL. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (°C)	COND. (µmhos)	O.R.P. (mV)	DISSOL. OXYGEN (mg/L)	TURBIDITY (NTUs)	COMMENTS (COLOR, ODOR)
1350			300	37.55	7.36	27.53	0.997	22	4.75	698	
1355				37.45	7.05	27.40	0.952	23	2.61	337	
1400				37.44	7.04	27.82	0.748	38	2.19	239	
1405				37.45	7.00	28.02	0.743	55	2.27	130	
1410				37.45	7.03	27.88	0.742	68	2.21	83.3	
1415				37.45	7.03	28.03	0.726	74	2.14	54.8	
1420				37.45	7.03	28.24	0.917	77	2.34	41.9	
1425				37.45	7.03	28.20	0.915	83	2.27	30.7	
1430				37.45	7.03	28.13	0.914	84	2.19	26.3	

WELL CAPACITY (Gallons per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>JUSTIN COOPER</u>				SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>			
SAMPLING METHOD(S): <u>LOW FLOW GRAB</u>				SAMPLING INITIATED AT: <u>1435</u>		SAMPLING ENDED AT: _____	
FIELD DECONTAMINATION: Y ☒ N ☒		FIELD-FILTERED: Y ☒ N ☒		DUPLICATE: Y ☒ N ☒			

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	
3	AG	40 mL	H ₂ SO ₄	—	—	TOC
3	CG	↓	HCl	—	—	VOCs
3	CG	↓	HCl	—	—	DISSOLVED GASES
1	PE	500 mL	—	—	—	CI-

REMARKS:

U6380X HORIBA

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; PE = POLYETHYLENE; O = OTHER (SPECIFY)

GROUNDWATER SAMPLING LOG

SITE NAME: <u>GE VIEQUES</u>	SITE LOCATION: <u>VIEQUES, PR</u>
WELL NO: <u>C-7</u>	SAMPLE ID: <u>C-7</u> DATE: <u>12/17/13</u>

PURGING DATA

WELL DIAMETER (in): <u>2"</u>	TOTAL WELL DEPTH (ft): _____	STATIC DEPTH TO WATER (ft): <u>8.55</u>	WELL CAPACITY (gal/ft): _____
1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = = (_____ - _____) X _____ = _____			
PURGE METHOD: <u>Low Flow Method</u>		PURGE INITIATED AT: <u>1120</u>	PURGE ENDED AT: _____
TOTAL VOL. PURGED (gal): _____			

TIME	VOLUME PURGED (gal)	CUMUL. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (°C)	COND. (µmhos)	O.R.P. (mV)	DISSOL. OXYGEN (mg/L)	TURBIDITY (NTUs)	CCOMMENTS (COLOR, ODOR)
1120			<u><1.00</u>	<u>20.06</u>	<u>7.51</u>	<u>27.90</u>	<u>2.22</u>	<u>-53</u>	<u>3.24</u>	<u>45.9</u>	
1125				<u>20.95</u>	<u>7.61</u>	<u>27.89</u>	<u>2.24</u>	<u>-173</u>	<u>1.19</u>	<u>7.8</u>	
1130				<u>21.78</u>	<u>7.47</u>	<u>28.24</u>	<u>2.25</u>	<u>-147</u>	<u>0.97</u>	<u>106</u>	
1135				<u>21.88</u>	<u>7.20</u>	<u>28.49</u>	<u>2.35</u>	<u>-114</u>	<u>0.81</u>	<u>595</u>	
1140				<u>22.02</u>	<u>6.99</u>	<u>28.83</u>	<u>2.39</u>	<u>-95</u>	<u>0.68</u>	<u>493</u>	
1145				<u>22.41</u>	<u>6.85</u>	<u>28.88</u>	<u>2.44</u>	<u>-91</u>	<u>0.61</u>	<u>368</u>	
1150				<u>22.74</u>	<u>6.83</u>	<u>28.86</u>	<u>2.48</u>	<u>-88</u>	<u>0.53</u>	<u>313</u>	
1155				<u>22.99</u>	<u>6.82</u>	<u>28.99</u>	<u>2.49</u>	<u>-86</u>	<u>0.51</u>	<u>281</u>	
1200		<u>1.0</u>		<u>23.21</u>	<u>6.81</u>	<u>28.98</u>	<u>2.48</u>	<u>-85</u>	<u>0.49</u>	<u>261</u>	

WELL CAPACITY (Gallons per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>Justin Cooper</u>				SAMPLER(S) SIGNATURE(S): 	
SAMPLING METHOD(S): <u>Low Flow Grab</u>				SAMPLING INITIATED AT: <u>1205</u>	
SAMPLING ENDED AT: _____					
FIELD DECONTAMINATION: ☒ Y ☐ N		FIELD-FILTERED: ☐ Y ☒ N		DUPLICATE: ☐ Y ☒ N	

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	
3	AG	<u>40 mL</u>	<u>H₂SO₄</u>	—	—	<u>TOC</u>
3	CG	↓	<u>HCl</u>	—	—	<u>VOCs</u>
3	CG	↓	<u>HCl</u>	—	—	<u>DISSOLVED CASES</u>
1	PE	<u>500 mL</u>	—	—	—	<u>Cl⁻</u>
1	PE	<u>250 mL</u>	<u>HNO₃</u>	—	—	<u>Ca, Na, Mg</u>

REMARKS:

V3860X HOLBA

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; PE = POLYETHYLENE; O = OTHER (SPECIFY)

GROUNDWATER SAMPLING LOG

SITE NAME: <u>GE Vieques</u>	SITE LOCATION: <u>VIEQUES, PR</u>
WELL NO: <u>C-8</u>	SAMPLE ID: <u>C-8</u> DATE: <u>12-17-13</u>

PURGING DATA

WELL DIAMETER (in): <u>2"</u>	TOTAL WELL DEPTH (ft): _____	STATIC DEPTH TO WATER (ft): <u>19.60</u>	WELL CAPACITY (gal/ft): _____
1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = = (_____) X _____ = _____			
PURGE METHOD: <u>LOW FLOW WATER SPOT 2</u>		PURGE INITIATED AT: <u>1205</u>	PURGE ENDED AT: _____
		TOTAL VOL. PURGED (gal): <u>3.0</u>	

TIME	VOLUME PURGED (gal)	CUMUL. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (°C)	COND. (µmhos)	O.R.P. (mV)	DISSOL. OXYGEN (mg/L)	TURBIDITY (NTUs)	CCOMMENTS (COLOR, ODOR)
12:05			200	19.80	7.20	30.81	1.93	197	4.60	367	
12:10			200	19.68	7.01	30.14	2.11	189	3.72	472	
12:15			200	19.69	6.96	29.92	2.14	179	3.12	222	
12:20			200	19.70	6.80	29.80	2.14	171	2.53	50.3	
12:25			200	19.70	6.81	29.80	2.12	167	2.15	14.8	
12:30			200	19.70	6.84	29.68	2.11	164	1.91	3.5	
12:35			200	19.70	6.87	29.80	2.10	160	1.64	0.0	
12:40			200	19.70	6.90	29.91	2.10	157	1.43	0.0	
12:45			200	19.70	6.92	29.91	2.10	155	1.34	0.0	
12:50		<u>3.0</u>	200	19.70	6.92	29.86	2.10	153	1.23	0.0	

WELL CAPACITY (Gallons per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>Justin Cooper</u>				SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>			
SAMPLING METHOD(S): <u>LOW FLOW GRAB</u>				SAMPLING INITIATED AT: <u>12:55 pm</u>		SAMPLING ENDED AT: _____	
FIELD DECONTAMINATION: Y ☒ N ☐		FIELD-FILTERED: Y ☐ N ☒		DUPLICATE: Y ☐ N ☒			

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	
3	AG	40	H ₂ SO ₄	—	—	TOC
3	CG	↓	HCl	—	—	VOCs
3	CG	↓	HCl	—	—	DISSOLVED CASES
1	PE	500 mL	—	—	—	CI-

REMARKS: 59613 HOEBA

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; PE = POLYETHYLENE; O = OTHER (SPECIFY)

GROUNDWATER SAMPLING LOG

SITE NAME: <u>RE Vieques</u>	SITE LOCATION: <u>Vieques, PR</u>
WELL NO: <u>C-9</u>	DATE: <u>12-17-13</u>
SAMPLE ID: <u>C-9</u>	

PURGING DATA

WELL DIAMETER (in): <u>2"</u>	TOTAL WELL DEPTH (ft): _____	STATIC DEPTH TO WATER (ft): <u>30.49</u>	WELL CAPACITY (gal/ft): _____
1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = = (_____) X _____ = _____			
PURGE METHOD: <u>LOW FLOW WATER SPOUT 2</u>		PURGE INITIATED AT: <u>3:00 PM</u>	PURGE ENDED AT: _____
		TOTAL VOL. PURGED (gal): _____	

TIME	VOLUME PURGED (gal)	CUMUL. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (°C)	COND. (µmhos)	O.R.P. (mV)	DISSOL. OXYGEN (mg/L)	TURBIDITY (NTUs)	CCOMMENTS (COLOR, ODOR)
3:00 pm			200	32.57	7.85	30.59	0.533	139	6.17	93.1	
3:05			200	33.18	7.54	30.04	0.523	153	5.93	37.1	
3:10			200		7.45	29.79	0.524	155	5.83	25.4	
3:15			200		7.43	30.15	0.524	154	5.71	24.1	
3:20			200	34.20	7.45	30.47	0.526	150	5.57	23.3	
3:25			200	34.39	7.52	30.55	0.525	144	5.50	20.5	
3:30			200	34.55	7.76	30.01	0.518	133	5.48	14.4	
3:35			200	34.68	7.67	30.18	0.522	136	5.35	12.4	
3:40			200	34.80	7.69	30.51	0.523	133	5.25	13.0	

WELL CAPACITY (Gallons per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>JUSTIN COOPER</u>				SAMPLER(S) SIGNATURE(S): 			
SAMPLING METHOD(S): <u>LOW FLOW GAB</u>				SAMPLING INITIATED AT: <u>3:45 pm</u>		SAMPLING ENDED AT: _____	
FIELD DECONTAMINATION: Y ☒ N ☐				FIELD-FILTERED: Y ☐ N ☒		DUPLICATE: Y ☐ N ☒	

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	
3	AG	40 mL	H ₂ SO ₄	—	—	TOC
3	CG	↓	HCl	—	—	VOCs
3	CG	↓	HCl	—	—	DISSOLVED GASES
1	PE	500-L	—	—	—	CI-

REMARKS:

59613 HORIBA

Office Location: _____

GROUNDWATER SAMPLING LOG

SITE NAME: GE VIEQUES		SITE LOCATION: VIEQUES PR	
WELL NO: C-10	SAMPLE ID: C-10	DATE: 12/17/13	

PURGING DATA

WELL DIAMETER (in): 2"		TOTAL WELL DEPTH (ft): _____		STATIC DEPTH TO WATER (ft): 30.33		WELL CAPACITY (gal/ft): _____	
$1 \text{ WELL VOLUME (gal)} = (\text{TOTAL WELL DEPTH} - \text{DEPTH TO WATER}) \times \text{WELL CAPACITY} =$ $= (\quad - \quad) \times =$							
PURGE METHOD: Low Flow Wash		PURGE INITIATED AT: 1505		PURGE ENDED AT: _____		TOTAL VOL. PURGED (gal): _____	

TIME	VOLUME PURGED (gal)	CUMUL. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (°C)	COND. (µmhos)	O.R.P. (mV)	DISSOL. OXYGEN (mg/L)	TURBIDITY (NTUs)	COMMENTS (COLOR, ODOR)
1505			4100 mL	32.18	7.19	28.82	6.187	-260	7.64	84.4	4100 mL of
1510				32.49	12.33	28.31	3.49	-303	1.15	4.2	Flow and
1515				32.92	12.32	28.28	3.52	-310	1.02	130	still getting
1520				33.25	12.02	28.48	2.86	-318	0.76	307	DRAWDOWN
1525					11.74	28.52	2.51	-311	0.60	366	
1530					11.44	28.08	2.29	-314	0.41	370	
1535					11.43	27.86	2.30	-312	0.36	352	
1540	.75		✓		11.42	27.99	2.30	-319	0.35	326	

WELL CAPACITY (Gallons per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: JUSTIN COOPER			SAMPLER(S) SIGNATURE(S):		
SAMPLING METHOD(S): Low Flow GRAB			SAMPLING INITIATED AT: 1545		SAMPLING ENDED AT: _____
FIELD DECONTAMINATION: Y ☒ N ☒		FIELD-FILTERED: Y ☒ N ☒		DUPLICATE: Y ☐ N ☒	

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	
3	AG	40 mL	H₂SO₄	-	-	TOC
3	CG	↓	HCl	-	-	VOCs
3	CG	↓	HCl	-	-	DISSOLVED GASES
1	PE	500 mL	-	-	-	CI

REMARKS:

U63860X HGR/BA

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; PE = POLYETHYLENE; O = OTHER (SPECIFY)



SITE NAME: GE VIEQUES		SITE LOCATION: VIEQUES, PR	
WELL NO: C-11	SAMPLE ID: C-11	DATE: 12/17/13	

WELL DIAMETER (in): 2"		TOTAL WELL DEPTH (ft):		STATIC DEPTH TO WATER (ft): 23.89		WELL CAPACITY (gal/ft):					
1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY =											
= (-) X =											
PURGE METHOD: Low Flow Monsoon			PURGE INITIATED AT: 1620		PURGE ENDED AT:		TOTAL VOL. PURGED (gal): 1.25				
TIME	VOLUME PURGED (gal)	CUMUL. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (°C)	COND. (µmhos)	O.R.P. (mV)	DISSOL. OXYGEN (mg/L)	TURBIDITY (NTUs)	COMMENTS (COLOR, ODOR)
1620			2100.4	25.96	8.84	27.50	735	-165	3.20	132	
1625			"	27.30	7.62	27.40	633	-74	1.86	251	
1630			"	29.20	7.31	27.39	623	-36	1.48	339	
1635			"	30.40	7.25	27.40	625	-20	1.32	431	
1640			"	31.40	7.23	27.40	624	-11	1.27	630	
1645			"	32.65	7.22	27.38	623	-2	1.20	768	
1650			"	33.70	7.21	27.37	623	3	0.99	623	
1655			"	34.54	7.21	27.32	623	6	0.92	445	
1700		1.25	"	35.35	7.21	27.30	623	10	0.85	311	
WELL CAPACITY (Gallons per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88											

[illegible]

REMARKS

UG3860 X HORIZA

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; PE = POLYETHYLENE; O = OTHER (SPECIFY)



SITE NAME: 401BA CAL		SITE LOCATION:	
WELL NO:	SAMPLE ID:	DATE:	

[illegible][illegible]

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; PE = POLYETHYLENE; O = OTHER (SPECIFY)



WATER-LEVEL SURVEY

Location VIEQUES, PR

Datum _____ Field Rep Justin Cooper Page # 1 of _____

[illegible]

